SEGA SATURN: Which games are hot? Every new title reviewed and rated

PlayStation Saturn PC CD-ROM 3DO Ultra 64 M2 Jaguar Arcade Online



GENERATION

Leading edge computer and video games

# How to Get a Job in the Game Industry

Want to play games for

a living? You can do it.

We show you how, p.34

M2
The hardware's ready.
So is it any good?
Prepare to be surprised

DX in the weeking title of Shiny Entertoirment's first readcreation project. "We're givens thrush the PC feater than April 1996

## MD

Exclusive: life after Earthworm Jim for Shiny Entertainment

## Jaguar Extinct

The last days of the company that invented videogames?

volume two

16



THE WAY GAMES OUGHT TO BE: High-octane game theory from Chris Crawford



# Labor of **Love**

"Nothing is really work unless you would rather be doing something else," said Sir James M. Barrie. He was wrong. Some people get to work in the game industry.

Shiny Entertainment's Dave Perry loves his work and has successfully progressed from earning \$50 per game while he was at school, to running his own development studio in Lagana Beach, CA. AS MDK (the working tible for \$hiny finertainment's first not-generation game) is unresided on page \$56, Perry also contributes to our How to Get a Job in the Game Industry feature, starting on page \$34.

His personal advice for would be programmers? "Out a crappy old PC, a shareware Complier, a main degree and **impress me with a demo** (no., not a game, a 30 demo — maybe a cer rotating or something). Invest some time, buy some books, and the doors will swing open."

But there are other entry-level jobs in the industry that involve working with games.

We show you what they are and suggest how you can get one for yourself. "Do your work with your

whole heart and you will succeed — there is so little competition," Eibert Hubbard counseled. It's probably sound advise, but as Dave Perry concludes...

"It's not easy, or everyone would be doing it."



#### April 1996

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Produced on the United States in wemone. NEXT Generation shares enforced with the UR based engagers (SSEE And now, for the third form, the 1925 Fts "commandor", LA Figs "That sk "—"shorring in the foorway to greatness "AS off to the All Star gazed labor-had "list happin Scory about W-day (SW 111 enable it so



Which game machine would David Perry buy?
Hence police to the heads of Sep. Soap, Nanesdo and every other proceeder to the 32-bit distore, we said the opinion of a (very) connected adoption game long, weasse stoquent on our multicomoble feature connected adoptional colours. Our Perry adulary losses and platform game long, weasse stoquent on our multicomoble feature.



low to get a job in the game industry

They don't call them she best jobs in the world because they're easy to get. This month, we give you everything you need to get your foot in the door. A rundown on the best satry positions, affect from the experts and hundreds of company contacts





#### talking

a machine would Dava Parry buy? Show Entertainment's visionary chooses a system

#### Just what will be under his tree come Christmas 76 breaking

News All the latest information from the world of gaming Movers & Shakers (but not provide

Joyriding (online garring news) Arcadia (com-op news and updates) Generator (word from the developers)

#### subscribing

Save cash and time Be patrictic and have each issue of NG delivered to you by a uniformed agent of the state

#### working

How to get a job in the game dustry Everything you need (short of skill and talent) to land

#### a job doing what you do best ng software

First looks at gaming's future. Eleven dities stolen richs out of the hands of overprospetive producers. M.D.K. (PC); More TT (Arcade), Top Gun (PS-X); Tenko (PS-X): Gvizzation 2 (PC). Afterlife (PC), Total Meyhern (PC); Ponzer Desgron 2 (Sexum); Return to Krondov (Mac, PC, PS-X); Pictwines (N64); Deodlock (PC)

#### 84 rating

Our crack review squad throws 35 games in the air to separate the physide wheat from the miserable chalf - her, it had so be sned as least once: Toshmoon 2 (PlayStation), Dark Stalkers (PlayStanion), FIFA R6 (Seture), Press! Rage (3DO); Mosile Conviced 3D (Inguar): The Hise (PC): I Ish How (PC): Chronomotors (PC), Strongic Conquest (Mac), Time Cree (Arcade)

#### 106 now hiring You've read the feature, now find out who's hiring

this month, in the industry's only recruitment section

### 115 corresponding

You express your hooks, your dreams, your despets fears, and we come up with snappy answers

### 117 ending

Next month... Next Generation 817 arrives on newsstands on April 23. First out how to subscribe on page 117

#### 118 theorizing

The way games ought to be Gaming's most outspoken philosopher explains why he thinks his computer is talling to him...









#### Alphas: 11 games previewed Our exclusive preview of Shire's newest next generation PC game • An internew with AM3, More TT's developers \* SCEA's second-generation game, Tenko \* Forcer Diognon 2, and more







Finals: 35 games reviewed The last word on all the latest videogames, reviewed and rated by the best in the business. If you want long-winded, blowhard, lovey-dovey reviews, then put this magazine down





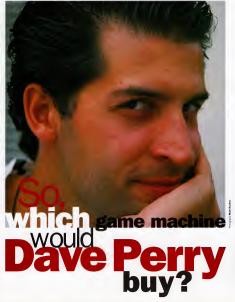




the run, split around decision making oblition are key



Shiny Entertainment's Dave Perry was the most famous Western game developer of the 16-bit era. with a hit list that includes Aladdin, Cool Spot, and Earthworm lim, Now, as both Shiny Entertainment and Next Generation readers make the move to the next generation, it's time to ask...



haids of Nixerios. Serv. and Sap., serv providing the service of the Nixerios. Serv, and Sap., serv providing the Nixerios. Service providing the Nixerios services and services and services and services services and services services and services services. Services service

So far, Shiy Einternalment ban't been a piper on the energy-rearised hartigrounds. All one point, IDO was tooding Shiny as one of the last developes for PLA And prior to Shartin Petry was lood in his support for Utra 64. But now—with sall no Highstotian and Saum riddes unwelled —Shiy Einstralments is embarking upon AMX, its liter 5 (till. So has the "object loof" turned his back on the hardware companies of turned has been and the size of the whole systems the bank in separation! Does on whose systems the bank in separation! Generation caught up with Does at the Shiry Einstrument of the Lauran Beach, CA.

#### What about Ultra 64?

NG: In 1995, you were quoted saying that you were very losen to develop for Ultra 64. But now you have announced that your next project is for the PC. Why no Ultra 64 project?

DP: MDK was stready being designed before we had desided Ultra 64 or PC. As a scam previously devoted or the world of cartridges, the Ultra 64 would have been our safest and eassest bet. However, we needed more. We had by plans for the game and needed some digital real estate to squeeze is into. The new hope became the CD-ROH-beating "magnetic media." Nitreado promised us. We watted and watted, finally I flew

to Tokyo to see it. No sign of it anywhere.

Hence the PC decision. To make us happy
we chought of reasons why we would prefer the
PC, like — more time to work on the game as we
won't have to wait for cartridges to be

manufactured, for instance. NG: What were your impressions of Ultra 64 at the Shoshinkai show?

DP: Initially, after sitting in a plane for 11 hours and after all the hype, I was expecting the \$40,000 Siltion Craphic's desperience that has been eliabed to. Of course, this was not going to be the case. However, the matchine was very impressive for the money. Then again, anything would tree looked good after all that airplane food.

NGL Do vop believe that the system offers a

NG: Do you believe that the system offers a quantum leap in performance over and above PlayStation and Saturn?

DP: From the Clive Sinclair days of British home computers. The "QL" or Quantum Leap was no great leap at all, however, it was ricely packaged. I feel the same way about the Ultra 64: Nintendo has done exactly what it needed to do to



Shiny Entertainment's Lugiuss Beach HQ, and home of Earthworss Jim. The company and shop just mission down the road from Virgin, where the core teem used to work

make uself a gpc. The definition of the word "Quatem" is actually "The information amount by which certain properties of a system can change." So enough said, I agree with you. MR. As a gree developer, where or you see MR. As a gree developer, where or you see MR. As a gree developer, where or you see DP. The carrelge is the weakness. It removes the shift you share in copious amounts of animation, sounds, and spectacular effects. Its arrenals is the hard-vestaled if Next olivably and servenths is the hard-vestaled if Next olivably and

the funky joypad.

NG: If you were to develop an Ultra 64 game, how would you go about making use of the analog/digital joystick?

DP: If I was on a hover bike, I could lean

accurately into the corners. The only thing that Nintendo forgot was to make the buttons amalog as well. Imagine punching with different strengths or jumping to the height you want. I guess we will get that on Ultra 128. NGc: Does the prospect of a Nintendo online.

NG: Does the prospect of a Ninten gaming network excite you?

DP. Typ — It's time. It also can turn a game that would get boring quickly into a game with thousands of hours of gamephy. Finally it supplies real learning intelligence to pile spalies which is still vacam in any game I have played. On the downside, expect to lose a lot of games to hormits that lee on the network.

#### S&M & Saturn

NG: Were you surprised by the technical virusoity of VF 2 and Sego Relly on Saturn? DP: No, I have been walting for somebody to make the move. Well done Sega! Especially the leap from VFI to VF2. "The cartridge is [Ultra 64's] weakness. It removes the ability to slam in copious amounts of animation. sounds, and spectacular effects. Its strength is the highly detailed (Hi-Res) display and the funky iovpad"

"Saturn does

not make vou

bed - which is

what the hype

proposed. You

actually have

work, and to

perform you

large whip"

to do some

make it

need a

breakfast in

NG: How was Sera able to produce such a technological leap forward? DP: The Saturn does not make you breakfast in bed - which is what the hype proposed. You actually have to do some work, and to make it

perform you need a large whip. Finally programmers are convincing it to sump through hoops by using tight/fast RISC code, not sloppy textbook C programming.

NG: Will independent and third-party developers such as yourself - be able to achieve similar results?

the machine, then there will be a steady interest. NG: So you see inevitable success for Saturn? DP: If things stay on course and kids don't sell their soul for Ultra 64 (as they will in Japan). Yes, there is room for Saturn, it has got up from the floor and just taken a swing back at Sonx. Somebody should make the Sony vs. Sees fighting game and write it on Ultra 64.

#### What second generation?

NG: Would you agree that having started out with some very impressive games. PlayStation's

development presently seems to have stamated? DP: Sony is doing its best to "keep 'em coming." All that you are experiencing is the

infamous "too many games" syndrome. Hopefully, Sony will begin to fitter out the rubbish. Then you will feel more positive in general soward the software. There are a lot of very talented people working on it. Sony is being well supported NG: What evidence have you seen that Sony will be will no

to fiter out the bad titles? DP: I like Some It has done a great job selling PlayStation, and it is just getting too popular as far as developers goes. I don't buy PlayStation games anymore as I bought a bunch of turkeys that, over time, wear down a buyer's interest. It did with me. NG: Why are you not developing PlayStation

ames yourself! DP. We are, however, the game is secret at the moment. It is based on a whole new set of characters. No. not Earthwarm (m. These characters were revealed at the Toy Fair in New York. We've been keeping the whole thing quiet. NG: Sony is claiming that with its second reportation software enrines. PlayStation is capable

of running the original Ridge Rocer at 60 fps. That's an improvement of over 100%. Do you think that this claim is true? DP: Totally. However, I don't want Ridge Rocer at 60 frames per second. I want Ride Room at a

screen res. of 640 pixels across by 480 pixels deep. If Sony can do that, then it is smoking NG: Why do you feel that resolution is more important than frame rate? Is this true for all

DP: Yes, on a road it enables you to see farther into the distance. This enables you to negotiate obstacles better and so enjoy playing more. Big pixels mean blocky vision - I don't like my vision blocked. It also adds detail --- you could make out facial expressions on characters, for example and that's important. It also enables some cool programming tricks and effects!



DP: Funnily enough. I was down at the whip shop last

NGr Has Sega actively been sharing its secrets with the development community!

DP: Not really. It offers technical support. It is in Sega's interest to give away Sego Rally code to developers. However, Sega is making big bucks off it at the moment, why should the company give that away? It is a big decision, I doubt it will happen, But O.I. walked,

NG: If Sega doesn't share its secrets with the third-party developers, it will result in less good Saturn games being produced and it will also discourage third-party game development because no one will be able to compete with Sega's own mes. Would this be suicide!

DP: Sega makes very good arcade games. This translates - via great teams - into very good games. That gives Sera a built-in safety buffer. However, it still needs the good third-party publishers and developers who enhance the credibility of the machine. Sees should adopt the same attitude as Nintendo and protect its shelf space, if this means giving code to developers to

But maybe then Sego Rolly fars will end up with Sega Rally 1,2,3,4,5,6,7...

keep overall quality high, then so be it.

NG: What is your promosis of Saturn's future? DP: I expect a graph of success shaped like the Himalayas. As each hit pops up so will interest, then it will swing low. This will happen until all programmers set to grips with



NG: How do you think second-generation PhyStation software compares to Ultra 64 games? DP. Nintendo has already got the filter on what I mentioned a few questions ago. That means it will come out fighting and will keep leaving the player feeling positive toward the quality of the experience. Sony hopefully will take the same approach, then it's playes off NG: Why do you think PlayStation did so much better than Saturn in 1995! DP: The initial games on Saturn were

disappointing. Ridge Roter was impressive Magazines, school yard chatter, and the Internet quickly spread the news.

The "other" platform NG. Why choose the PC as the lead platform for our next game MDK!

DP: It was a target we had dismissed, however, now Windows 95 is around and the hardware is finally strong enough to support a three-dimensional action game. the timing is perfect. NG: There are more games made for the

PC then for any other game system. What gaps do you think there are in the PC game market? DP: A good game makes a gap. The PC market has no Sker!

NGr A lot of people are talking about 3D graphics and multimedia accelerator cards as the "Next Big Thing" on the PC game scene. Do you see this happenne? DP: Yes, over time. But it will take time. until a killer game arrives that drives people to buy the hardware. When that game arrives, the news will spread. But it will take more than Sonic the Hedgehog. NG: Windows 95. The games aren't

selling. So is it a good thing! DP. Yes, it's good. Give it time, there is a distinct lack of whites at the moment. Spreadsheet gurus are reaching for their joypads. Meanwhile, development companies are still reading through all the documentation. In the meantime, games

like Earthwarm Jm on Windows 95, for instance. are selling just fine

NG: What is the future for gaming on the PC? DP: Currently harging in behind the console market. Finally the quality of games will far surpass the console market, however, as always,

more costs more. NG: So you believe that PC earnes on high-end (although still mass-market) systems will outperform Litra 64 and M2 titles DP: Yes, it is a while away, however, it is also

silly to think that B-to-16-year-old children our best turest market - are soins to be buving these machines. That is why the console market will always win in reality. Also, as console comparees control the quality of their games, the PC market has no such overseer. So to clanfy, the answer is "sort of." I will be playing cool PC games at home, but we won't stop making console games in the office.

The 3DO/M2 paradigm

NG: Shiny was being touted as one of M2's premier developers. Is this still the case! DP; We were considering Massushita's M2, but we have postponed the title until the machine hits the shelves.

NG: From what you've seen of M2 so far, what has impressed you, if anything? DP: I have not seen the final machine. The specs are very impressive, the silicon is cooking. We are all waiting to see what dinner tastes like.

"As console companies control the quality of their games. the PC market has no overseer... I will be playing cool PC games at home, but we won't stop making

console games in the office"



o has formed to the DC to the 224 end to felling before it's truly started? What about Uline 64 and M2? Perry argues that the 64s is her argues that the 64s is a felling the graphes of cause their trouble, but "Historice will win in the and," he entires



The 32-bit generation hasn't been kied to the small, independent game developer so fax.

The main prices have gone to the large, big-budget studies. Can Shiny break the moid?

"I have not on the machine [M2]. But the specs are very impressive and the silicon is cooking. We are all just open waiting to see

what dinner

tastes like"

NG: Virsals your understanding of what thisstants and ill on with the PIQ schonlogy! DF: I have no also and that's ny worry. Because the pipe of the pipe and the pipe and the pipe and distinstant. Never the pipe and or old kick some major bust. However, I am still writing so hear a plan. I hope that, Bis Gong, it really goes for it. Otherwest, coold turn out to be the most fun that comes with a few joypul. NGs What do you think about Trip Hawless right months to be piped.

DP: Chi-Ching! [Grins]
NG: From a developer's perspective, how big a problem is the fact that The 3DO Company handed over all developer support to Matsushitik!
DP: Filter we will her than to stee or we had

problem is the tack that the SLOC Company handed over all developers upport to Massushita! DP: Bither we will beg them to step or we had better brush up on our japanese. NG: Describe the best and worst case scenarios. NG: Describe the best and worst case scenarios that you could see unfulring for Massushita and M2 over the next couple of years. DP: At best 3DO keeps supporting developers.

an M2 michine ships in September, and 3DO has something cool like Alpine Rozer running better than the arcade machine. At worst, 3DO goes away, Matsuahita is left on its own to deal with M2. It misses Christomas and it has no gimes and no Christoma presents. Game over.

State of the game NG: Do you think that 32-bit rames you've seen

to this point are better than 16-bit games, other than their graphical aspects?

DP: Yes and no, we have plans to bridge the gap. We thank we have stendfled room for manuser. NGG: Are you exceted about the potential for networked, multiplyer garring? If so, what are the problems associated with its development, and in

what form do you think mass-market, multiplayer, DP: Lant was, neither can the people who ware. DP: Lant was, neither can the people who ware to sell you way and methods to do it. That the problem it will take time before winners, formats, and protocols emerge. Then it will be great. But then that's also what they said about VII... DP: The chilling believe of mortes and power. NG: Who — or which company — do you think is making the colors grown or the property — do you think is making the colors grown or in the property.

DP: Sega on console, Namco on arcade, and Westwood on PC. MG: Are there any that have made you think "Damn, I wish I'd done that"?
DP: Virtue Fighter 2 is technically excellent. The companies I watch and admire now are Sega "AH"

companies I watch and admire now are Sega "AN teams, Namco, Rare, and Psygnoss. I totally respect these companies and would pat them on the back if they were in my office right now. NGE: What are Shiny Entertainments goals? DP: To stoy small, potent, and focused. And to her more Scottish people.

hire more Socials people. Who, "No merelan that you make where you a new pares for implication with a MRG." We know where MRG. The make the make people is the implication. A Soura. The Soura engines in DOK RISC. It's 3.Dr. It has mores I shave, where the make the make the make the make people is the make the make the make the third that the make the make the make the make the make the make the source that the make the make the source that the make the make the source that the source that the make the source that the make the make the source that the make the source that the make the source the make the source the source the source source the source source



MDK provides gamers with a sense of murder end power, says Perry. See the exclusive preview on pg. 56











HISTORY'S MOST TEARED MONSTERS AND MUTANTS ARE BOITING FROM THE ARCADE IN SEARCH OF A DARK ARENA FOR THEIR NEXT MIDNIGHT FIGHT FOR SUPPEMACY VICTOR'S COMING OVER WITH HIS SHOCKING THUNDERSTRIKE FERCIA'S TRACKING IN PIENTY OF DIR FOR HER LITTERBOX KICK: BISHAMON IS SWINGING BY HIS RAZOR-SLASHING DIVIDER. ALL THE EVIL POWERS AND DEVASTATING MOVES OF THE TEN DARKSTALKERS YOU'VE COME TO FEAR ARE HEADED YOUR WAY. ALONG WITH HIDDEN SPECIAL MOVES, MID-AIR BLOCKS AND SUPER FATAL BLOWS TO HAVE VOLE PLANSTATIONITH SHOWS SO LEAVE A LIGHT ON FOR THE DARKSTALKERS. AND TAKE DOWN YOUR DAD'S BOWING TROPHIES RAPTOR'S FIVING SAW BIADE HAS BEEN SLICING A LITTLE WILD LATELY.





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Ultra 64 delayed: Nintendo of America cites "excessive demand"/p.14 - Atarl keeps a lid on it: Despite rumors of folding.
Atan clams it's up and running/p.15 - SquareSoft eyes PlayStation: Japanese RPG developer looks to grace Sory's new
console with its popular games/p.17 + %2r. on eves is bad news/p.18 + Namece: New games will port to the PC/p.20



It's our job to print the news and raise hell

## **Ultra 64** delayed

Nintendo delays its 64-bit game machine. Again

# until **September 30**



Hiroshi Yarsauchi, NCL'a Chairman, gets bia wish for a Japaneso isuach of April 21, U.S. gamers area't so iscici, having t welt five more months

"According

to those who

Peter Male, Noticed of America

a presented in NO 14, Necession of America has been unable to make its target lawred districts and been unable to laste April for Phintendo 64. The abooking lack of finalized software displayed at the monthm's unweiling at displayed at the monthm's unweiling at company industry pundls to suspect that necession at the control of the properties that the is, in fact, the case—at least in the U.S. The Japanese lawred remains on target for over the properties of the properties of

a lack of software as the cause of Nintendo 64's ascord reschedding, however. On February 1, is an open interest to the gaine industry, Peter Main, esecutive VF, Sales and Marketeng, Nintendo of Amento, attempted to pisce a positive spin on the announcement, promoting the sides when the second of the second Nintendo 64' (see the moethire is now officially known) around the world smill streeps and wouldn't be able to meet detailed.

Mintendo of America isn't blaming

know the market best. "Since [Shoshinkai] the realities of attempting to pull of Nintendo 64 such an enormous, virtually in Japan simultaneous marketing feat have caused us to reconsider," he claimed. alone, in year In defending this analysis. Main isses on to gite a survey of Japanese one, would software ligensees undertaken by easily Takararmasha Publications in Japan. According to Nintendo, having exceed all witnessed Nintendo 64 at Shoshinkai. worldwide 65% of those surveyed predicted sales of more than three million hardware sales to date units in the first year. Before Shoshinksi, a similar survey had for Sonv's indicated that only 37% predicted sales in excess of three million. PlayStation"



National claims that this change in expectations is the cause of its reappraisal of the situation, and not a lack of finalized sames.

"We were greatly gratified (and more than a little overwhelmed) with the predictions," and Mail.
"According to those who know the market best, Manchado 64 in Japan alone, in year one, would easily exceed all worstweet soles to date for Sorry's PlzyStation, at that point, we decided to vious, at all costs, the high problems the videogram industry encountered in 2056 when the U.S.

intends 64 was uralled to the world at its Shoshinkel exhibitie likys inst Kovembor



### Official line...

president Howard Lincoln discussed the delay with Next Generation: "21's primarile just a

"It's primarity just a supply and domand arablem. When we went into the Shoshiskai Show we were shooting for a simultaneous burch. Wehad never doze that before but we thought that we could do it. But when we measured the demand after the show (particularly the demand in Japan), it became very apparent that If we were to stick to a simultaneous bunch, we would have been shooting corseives in the feat... We would have ended up dribbling out a little bit in each (country), causing all

sorts of aggrandian not only at the consister level had at the retailer level. "Look at the Sega age reinner. In May they made a calculated decision to do what they did, but a let of retailers weren't too happy about that. I'm sure they had good reasons ... and I'm not taking shots at them, but it's an campte of what can happen it a.

learnin is net well done."
So what's the held us?
"The main problem is
the production of the two
key chips, the 64-bit CPU
and the reality copencessor.
[But] we now know that
we have a winner on our
hands, and I think any
disappointment will be
gone is an instant when
people get their hands on
these machines."

and other markets fieled to receive full product or marketing support behind either Satum or PlayStation launches." Quite what these "huge

Quite what these "huge problems" exceptional Segue and Sery might be, Mein doesn't say, is he clearing that Sery might be, Mein doesn't say, is he clearing that Sery and Segle outlehers edit more PlayStations and Statems, if only they had had more to self? Surely, not. Nietendo (along with The 2000 compent) were vocel throughout 1995 in stacking their competitions' select that PlayStations and size that PlayStations and

Saturns were simply not

soling at all, A paradox?

Perhaps, but Nintendo is

a concrete justification.

a company that has gotten used to having its cake and eating it.

"We've chosen to aword the mistake of not being able to fully support a U.S. launch at the same time Japan launches." is as need as Main tests to

In regard to the "bulky drive," Misin offered some fresh news. This wireable disk drive until will be attached to the bottom of the N64 console, with magnetic disks front-loaded into the unit. As a further expansion to the N64 system, the disk drive unit will be bundled with a 1 or 2 with a 1 or

expansion RAM pack.
"The magnetic disks
will measure 3 3/4" and
will hold 64 megabytes of
data," Main continued.
"[This is] approximately 15
times the data contained
in the Super NES Denley

Howerd Lincoln, Nistendo of America's president, talked at length to NG shout the doley. Check our NG Gallice for the full store King Country cartridge. The performance standards for this type of product are measured as Average Seek time (AST) and Data Transfer Bate (DTE, The AST for the NAS dick drive unit will be 150 ms, or almost whice as fast as certaing standards for either PlayStation or Soturn. The DTR

either PlayStation or Saturn. The DTR is 1 MB/scoond, or more than table the speed of the competing products. Mentered gives no laureh date for the "bulky drive," but — for the trade at least — Main revokals that "[10] will have its official North American debut with much farfare at Er in Los Angeles this comfine May."

Regarding price, Man select "The (price) is not yet self, but we are intent on psendering it as a system expension" significantly loss expensive than the unit on which it plays." So, Nintendo 5d will Isunch on September 30 with "eight to 12"

games available by the year's end.

Next Generation doesn't buy
Nintendo's story that the delay is
samply due to it not being able to "fully
support" a worldwide simultaneous

launch, Prior to Christmas of 1995, a Nintendo spokesperson refused to deny that fireshed Nintendo 64 units were board and "ready to go" at Nintendo's US

warehouse. And having scored big with Super NES in 195, Nintendo still has the instanceure in place to muscle hintendo 64 to the

marketikee, if it so desired.

The problem has to be one of a lock of frashed gizmis. And given that Nerteindo sed its "Draum faum" how been working on software for the last two years, this has to mean that either intended 64 is a doig to develop for, or the strength of PsysStation and Saturities have sourced histendo back to the drawing board with many of its supposed likely rapps.







### Express

and Minia Turth has bit the speedwar runting with its newest oer due in the arcades in mid-March, Using a dized PC engine, ight Rus, shown to February and also shows at the Lendon Trade Show, can be hooked up to play with as many as ur players or can be ced to just two. The ne's big "feature" is its ity to enable the player to switch from automatic or five-speed manual transmissions ing the game, while enally making use of the realistic pull effect of feedback steering

### Crumbling Atari Dosnite industry. still defiant

wide rumor and heavy company lav-offs Atari executives deny that the Jaquar is at its end



development, and with Jaquas At the time of soins to press. however, Aten was in a state of diserray, Remaining company insiders report an atmosphere of confusion. with many not appearing to understand what the future holds. One department of stame testers simply decided to carry on "testing" a game that had previously been finalized simply for lack of there being anyone around to tell them what else to do



new offices, but whether it knows where it is going is up for debate Following the abrupt departure of U.S. Operations Director Tedd Hoff, and the laving-off of 20 staff, many pundits predicted that Atari's days in the same industry were effectively over. Certainly, in interviews after his departure, Hoff intimated in the strongest terms that he did not believe Atori could function in the game

industry in its current state The 24-year-old company - the first and oldest in the videogame. business - howmor, responded deficitly if not wholly convincingly. August Ligiori, chief financial officer told Next Generation "We were in the videogame business a long time before Ted joined us. Just because he has gone does not mean that we are guitting the business. The story you've

"We sounded this market in the first place and we are not about to give it up," continued Ligioni. "We are still supporting laguer and we are still continues with our recently ennounced plans in restard to Atan Interactive. We have re-organized and we are

At \$29, the Jeguer has been! rees a small boost in popularity ut in this a brave new start, or



Following this stock statement, however. Atan appears to have shut up shop as far as communicating with the outside world is concerned On the unfortunate subject of

the 20 lay-offs. Hoff told the entertainment and business marazine Variety: "It was an indication that Atari's long-term intentions were not to continue in pursuit of videogame development or publishing, neither for Jeduar nor Atari Interactive. According to Hoff, most of the

lay-offs came from the creative and development and of the company and would need to continue in the vadeogame influstry." indeed many panels are claimed

that Atan's Suprovole headquarters is rupping on a more skeleton staff plus lawyers, of course, Atan's science on the subject has not done much to quell the wild rumors flying around the industry, including one purious scenario which would have the company's flambovant leaders Sam and Jack Tramiel completely sell off all Atan's interests in the game business and buy into a computer

#### components company. Another theory, however, runs along the line that the Tramiels want to set wholly involved in the game industry again, and Hoff's deperture is simply a result of this

Unfortunately, some of the casualties of the past few weeks have

#### Virtua Again AM2 is working on a

for which uses Sega's new Medel 3 techno released in conwith I askhard Mar Virtua Fighter Kizy

( Inelieb for Wide) year shown at the AOU SI The game will be so in chain to AM2's at olg title for '96. Se isual style charaby name nerconal with extremely large









Following the departure of Tedd Hoff. and the

laving-off of 20 staff. many pundits predicted that Atari's days in

the game industry were effectively over

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Haddlaadhaddalladladadaddddd

been a few of Atlan's most profitable alliances. Jeff Minter is said to have untethered his relationship, a divorce which will dismay beleasuered Jacuar owners who recognize his position as Jaguar's best developer and most

Some third-parties developers are also expressing disappointment with the lack of information coming out of Atan. High Voltage Software (ABA Asm, White Men Can't Aims) says it has not received any word of future Industrations, And Reyord Games ((Altra Vortek) says Atari appears to have drooped out of negotiations regarding a proposed sequel to the popular Alien Versus Predator.

#### All this is account.

"Atari's

long-term

intentions

farel not to

continue in

pursuit of

videogame

neither

development

or publishing.

heartbreaking for Jaguer owners given that the new \$99 Jaguer price-point has hed some small effect on sales Sciected retailers told Next Generation that they had been surprised by the uplift in sales, especially in the first frw works of 1996

Atan is the most abiding name in

## **Square** eyes PS-X

Nintendo's ally finally runs out of patience

orld-renowned Japanese RPG market-leader Squaresoft is considering the prospects of releasing its games for PlayStation and possibly Saturn In the past, the company behind

such well-loyed classics as the Final Fantasy series, Chronotriager, and Th Secret of Mans has restricted its release policy to Nintendo's machines This band between Nintendo and Source has been one of the most enduring relationships in the game industry and has benefited both

A number of changes, however, has prompted some at Square to move toward a multiplatform policy, with PlayStation at the top of the agenda First, Square is now a publicly owned company and it would take a very strange set of shareholders not

to ask for an exploration into lucrative new 32-bit eterforms. Second. Square's RPGs are extremely big games and thus

expensive to reproduce solely on cartridges. The comperative cheapness and storage size of CDs

make both PlayStation and Saturn look extremely tempting Third, both PlayStation and Saturn consoles are poorly served by RPGs. Put simply. Square sames would

clean up the market. And fourth, Square has recently opened a Los Anceles office dedicated to researching new graphic techniques for next-generation systems. It is Next Generation's understanding that although Littra 64 is the chief focus of the company's explorations, it is also

looking at other machines Ted Woolsey, marketing director of Squaresoft US, confirmed that talks were underway with Sony "and possibly other manufacturers," and that executives were debating a move away from its Nintendo exclusivity. No

decision has been taken yet, however. One possibility is that certain new games will be developed exclusively for Littra 64 and that older dames would be converted to the 32-bit pletforms.



The bond between Nintendo and Square has been one of the most enduring relationships in the game industry



ut Jeguar's future (abova). The ideography slace the 1970s (top)

# **Developers** worry

After its \$100 million purchase. Matsushita's M2 strategy is still perilously unclear about M2's future



'd ever stat this o

"We are worried that Matsushita will not be able to give us enough detailed

information to get the most out of this system"

ome secious questions are on-doing development of M2 software and Matsustrita's U.S. strateery as the 3DO-Mataushria 'transfer deedline' approaches contract between The 300 Company and Matsushita. It is up to Trip

According to the \$100 million M2 Hawkins' company to look after third party developers. But only until April 1. 1996. After that it's up to Matsushita. What is unclear is how Matsushita will handle this crucial task. Next Generation spoke to some

developers who said they were very pleased with the way 300 had handled difficult technical and creative problems. They expressed concern, however, over the degree of knowledge and industry understanding that Mataushite will bring to the party and how the hand off will be handled.

### One developer

contract states that it has to be nice to us up until April, and it has been very heinful But then it goes away and the people we have become used to dealing with will disappear "We are worned that

Matsushite will not be able to give us enough detailed information to get the most out of this system. We have to judge whether it's worth making the investment in time, money, and effort," Another developer, who has



ers stees on April 1, 1994



tions with Segs sed Gore

confirmed that it will be working with M2, said: "We have been pleased so far with our relationship, although we are concerned that some things have been slipping in development time. Getting hardware and library routines and all that fun stuff has become much tougher." And yet another developer guestioned the value of the system: "It's good, but in companson to other nextgeneration systems it's nothing special. It's going to look like you are playing on another polygon-based nest-gen system. Not a \$4 million

#### flight simulator." Nevertheless. Matsushita has not been

sleeping, Senior officials from the company's Japanese headquarters have been in the U.S. for prolonged and apparently intensive brainstorms concerning the launch. An announcement on the company's stratesty for working with U.S. developers and for launching the machine is expected to be announced

in the next few weeks. Next Generation expects that a new subsidiary will be set up here in the states, Previously, low-level operations for M2 had fallen to Panasonic Interactive, an outfit previously just equipped to develop and market 300 and PC games. It is also expected that the launch will be delayed until 1997.

#### Sony Boss Quits (again)

we left SCEA. By far the higo ck was the departure of president Marty Honlish, who was interviewed in NG only been moved to a differe drafted in after the abrus

arture of Steve Race In what looks to be ther example of Sony er rein, however, nlish has been move er and replaced with SCE Japan's former Vice President Shigeo

one's fillaf fillafsson who my believe to have been isses are displeased w higher price and dist rests that the price vas a part of the success





# **NEC** and **VideoLogic**

Another chip takes the PC into the world of smooth, fast 3D

# enter 3D war



graphics of Joins on. PC ever had it hey cen levesting he battle to gain control of the bargeoring graphes acceleration market on the PC is heating up. Following the arrival of barned's Edge card incorporating the hardin which are harderd Seria.

software, and Creative Labs! 3D Blaster, NEC and VideoLogic are now set to amounce the release date and full specifications of their PowerVR chip, a scalable high-spec 3D acceleration system.

acceleration system.
PowerVP provides fast rendering with all the expected selection of 30 effects. Gournal Shading, there obor modes, notation, and scaling. The singus thing about this new ordining, though, is the way it goes about creating such effects. As Tenor Wing, 'Udeologie's group marketing director, says: There are some special thinss.



The PC continues its assault on game genres bitherte dominated by consolos

Sery and Sega for the 1975 holdsy season. "The numbers simply 1975 holdsy season." The numbers simply deet add up," argues one well-placed searce at a greeninest third-party software house. "Sony is software house." Sony is sometime in excess of 500,000 Physiciations in 1976 and Sega is claiming sumbers in excess of 500,000 Seatens. From the retail reports we're been seeing, and the matter of the season of the season has these figures are at best 'holdsy are at the straing season that these figures are at best 'holdsy are politicistic,' and at worst, spinistick,' and at worst,

many others in the

ie. A full report will

Painting lies

by numbers?

ws at the hardware

es figures released by

about the architecture that are unique to PowerVR. We use what we call a reduced level of architecture which means we climinate the 2-buffer and all the memory hassies associated with it completely. We do have a 32-bit accurate abuffer function, however, so we forfeit none of its capabilities. Also, because we use an infinite planebased algorithm — which is different to those used by other chips - we don't need to have anything near the access to the texture memory. This means that our performance is a lot higher, in fact, pick a given performance point and we'll be chesper because we're not carrying the memory, Alternatively, pick a price you want to spend for the cheapest 3D

solution, and we'll probably double the

performance of other people's cards."

Nevertheless, all companies to companies hardware resiste that on matter how manyelsus a city may be interestly, it will get rowhere without some great activare. Nivial has benefited immersely from the involvement of Sega with the Edge card, and a near-perfect port of Virtus Tighter Penus can only have helped in ste quest to initialize a world standard in etrobics active.

The PowerVR system, will benefit from similarly coverful or Management of the following states of the control o

fact, it's better than the accade version," olsame Wing. As actorishing as this claim may some Wing agos on to assure Next Generation that Namo has actually found elements in the city which can be exploited to accentuate the original this. "Namo plans to enhance the games to use the special features that Powerly'R by. like realtime shadows.

seach lighting, and perspectivecornect tecture-mapping."
Expect more detailed information on this latest entrant to an already crowded marketplace next month in Next Benezition



Data

Nameer of list eroal games Yu Susaki serviced on From 19 on 1995; 15 forerage daily soccesses to Next Secretarion Ordino Techniques, 2000, 1995;

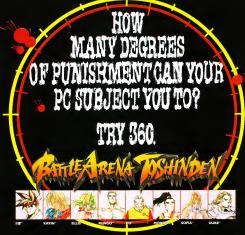
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Mext Generation's
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vorite bands of the orth: Bleek Grape, out Dakesfeld, and se Geatles



Remember those G-Force carnival rides that whirled so violently someone's little brother inevitably spewed? And that movie where the girl's head spun totally around? Kid Stuff, Because in Battle Arena Toshinden, your PC now hurls abuse at you from all angles, all at once, for as long as you can take it. A 3-D thrashathon reeling off the coolest graphics, nastiest street-fighting moves and sexiest characters this side of the 4th dimension, Battle Arena Toshinden puts a whole new spin on gaming. And a whole new warp on your perspective. Because here, the most brutal torture of all isn't getting

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clubbed, slammed or bludgeoned. It's walking away from the next figl





We all know that Psy-Q development tools are used for all existing PlayStation software development, but now there is AFFORDABLE, EASY-TO-USE bardware to go along with it.

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e High speed Linker and Librarian, Plus - th Psy-Q Debugger for Windows 95' allows developers to debug via their ORIGINAL, C or Assembly lenguage source files and support full C ex handling and data browsing.

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from here on: // things will never be the same/

by Christopher Sherman



Christopher V. Sherman is the publisher MMWIRE, the leading daily news service on talorent, MMWIRE http://www.rmwirs.com. Email

him at multimediavere®

over the entire responsibility for managing this videogame business. Question: le Ateri etili in the videorome husiness? Answer Who knows? ELECTRONIC ARTS ACQUIRES MANLY

N E W S L I N E : EA acquired Manley & Associates., a Washington-based independent software devaloper. EA bought 100% of the company, which will become Electronic Arts Souttle, Inc.

B D T T D M L I N F : Iven Menley director of product development at Menley, eays the company came to a point where. In order to invest in newer technologies, it either had to become a publisher or merge with an established publisher. Hence EA.

## REO, SIMIS, AND FIDOS

N E W B L I N E : Domark Software, Inc. is party to a four-way merger including UK-based Eldos, game developers Simis, and Big Red. The companies will be traded on The London Stock Exchange under the holding company Eldos PLC.

B O T T O M L I N E : The bettomiles save Domark, which makes up the lergest place of Eldos PLC, makes more end better games. With Domerk's publishing and development teams, Big Red's and Simia' davelopment strength, end Eldoe' video compression end decompression technology, the new company boose to increase its position in the videogame merket, Eldos Ptc, elso ralaed approximately, \$10 million from institutional investore, which was shared emongst the compar Fidee' technology, known as Fidee Software Codes (ESC), is marketeble beyond the game industry in ereas such ee video conferencing.

N E W B L I N E : Acolum Entertainment signed separate distribution agreements with Pulso Entertainment and Take 2 Interactive Software.

its development recourses while Pulse stains of ausgentend distribution capability. Strategic partnering at its best.

FOUR WAY MERGER BETWEEN COMARK, BIG

ACCLAIM TAKES STAKE IN PULSE

BOTTOMLINE: Accieim continues to bolater





VIOLOGAME CRASH OF 1995? N E W B L I N E : Fourth quarter 1995 was rough

for videogame companies, Atan, Digital Pictures, and Sanctuary Woods were just some of the companies that laid off employees, Others such as EA. The 3DO Company, Trimark Interactive, and Appleim felt the heat in the form of lower earnings. Digital Pictures blamed problems with distribution (bandled by Appliam). Appliam blamed hardware platform transition and heavy price competition. Trimark cited lower than expected installed base of Windows 95 -Trimero's the Hive is a WinQS notice title. With all the bad news, one consumer on the internet billed it the

B O T T O M L I N E ; It seems the industry overastimated the amount of product that retail could support overall. The Saturn-, PlayStation-, and PCinetailed have grew measurably, but there were simply too meny products out there competing for your herdeemed deliers. Besicelly, you end I didn't buy enough games over the Holiday. Either that or we did and then returned them for one reeson or another. Will 1996 fair better? Saturn, PlayStation and the PC will nee much larger installed beses by the end of the year but consumers will have new choices as well - Ultra 64 and possibly Matsushite's M2. This could lengthen the time before the industry cuts back on its feet.

ATARI - YOU MAKE THE CALL

video crash of '95.

NEWBLINE: Fact: The Atari president of North American operations Is gone, Fact: 20 employees were laid off at Atari, Fact: The public relations firm was fired Fact: Atari is evaluating other strategic business



ontions. Fact: Atari claims it's business as usual.

ROTTOMLINE: What is point on here? Our sources have claimed that the company intends to exit the videogame business. Ateri seys this is not true. One possible scenerio: Ateri pulle e 3DO (é le M2 Matauahita) and licenses its first best assets (in this case its nems, tradamerks, end cleesic pames.



Speed isn't all you'll need.









at breakneck speed and fight back with a







# JOYRIDING

Let's get one thing straight...



What exactly is the World Wide Web? The Web is actually just a series of documents created with HTML or hypertext markup language. The Internet was just a text-based entity, a huge builetin board of sorts, with Usenet groups of messages and e-mail flying back and forth. But the Internet was created to be flexible. and that flexibility enabled the creation of the Web and HTML documents. The Web is part of the Internet, which encompasses FTP (file transfer) sites. Usenet groups, IRC chat lines and more. What this means is that a formatted document can be created that is device independent. The document looks the same on any computer, operating system, or CPU, or any web browser - as long as it supports the HTML standards, which are constantly evolving. It's almost as if everyone had WordPerfect to view a WordPerfect document, on every PC. But nice fonts are just the

beginning: HTML enables special formatting. Sets, background graptine, graptics, and other image — of documents, as well as he links, text underlined, and in a different coor (probably blue or green), which and bring you another HTML document (or who page), at another address (or but page), at ATML documents are suffered to URI, or a universal resource locator). HTML documents can be interacted and underly substantive input from unears, or less the northy noctures and

text churned out by a crack team of public relations writers for a corporate conglomerate looking to appear hip and personal. The beauty of the Web Browser is that it's point-end-click aware: you can use your mouse to interact with the screen - and the HTML document, itself. Now to all you young'uns who grew up with Macs and Windows who don't remember operating systems like CP/M, or maybe even MS-DOS - those operating systems didn't have pointand click interfaces, but relied on keyboard commands and an arcane series of switches and flors. The Internet was based on UNIX, an even more aroane operating system. The good thing about the Web is that it takes all those text-line commands and reduces navigating the Web to the

simplicity of pointing and clicking.

The beauty of the World Wide Web is its democratic value. Almost anyone can put up a web page. Musicians from the avant-garde Tribeca variety, to stadium filling corporate rock machines can have a web site, and each is as easily accessible, more or less, as the other, This concept is revolutionary in the extreme: Traditionally getting your messare out means owning a television network (oh yeah, let's see, I've got a coupl'a million in my wallet for a down payment), a newspaper (what's the cost of paper stock now?). or some other media that's prohibitively expensive for restular folks to afford. But now, with a \$2,000 computer (a betty investment for sure but not nearly as expensive as purchasing a radio station), you can reach something like 10 million households - at least. You can use graphics, text, even sound. Now that's power. Arryone can create an HTML document; even the latest version of WordPerfect can format one

The Web is obviously a powerful tool. So powerful it's laid low a total of three online services: AT&T



Bernard Yee has contributed to USA Today and writes regularly for PC Gamer, PC Magazine, and has authored several books on genting by Bernard Yee

Interchange has closed its doors. A proprietary survive pales beardes the offerings of the Web, so ATA will rewamp its online offerings to be a Web based service. Apple's e-World, and even the Microsoft Natwork, are revamping wholesafe to a Web-based mostil. Even Prodity, with more than a million absorbable, is deligned to the production of the product

CompuServe to follow.

There's a weedth of information on the World Wide Web, but like any medium, thera's plenty of drose to sit frozogi, for the feet germ. There are a comparation of the strength of the plant of the strength of

Here's the rub, the Web has lots of graphics. That means lots of data. Many folks' expenence with the Web is from school or the office, where they usually have a high-speed data line for speeds far in excess of 28.8K bits per second. I only had 28.8K has in my apartment, though, and damn, the Web is slow. So slow as to be barely useful to me. I had the chance to use an ISDN line through Lara Lee's office (the filmmaker who made Synthetic Pleasures, a Web site mentioned last issue). Truly, ISDN. which theoretically reaches a clean 12BK bps, makes the Web usable; graphics appear in a blink or two instead of a short nap later, and browsing feels like browsing, not like watching grass grow. I'm about to emberk on getting ISDN in my apartment - and you'll hear all about it.

Bernardy@pipeline.com Bernardy@aol.com 75300-3525@compuserve.com цy

# ON SEPTEMBER 30th, DINOSAURS WILL FLY!



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exclusive to Nintendo 64. Players will rock. Competitors will weep

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# rcad All the month's news from the world of coin-ops

Marrie Webb is

the editorinchief of RePlay madazine, the US' leading trade madazine

by Marcus Webb



plans to triple soles by its colo on division over the next four years. This would result in sales of \$3.5 billion. It division sales to reach the same

tersion, hopefully bringing Seda to worldwide sales in all markets of about \$7 billion - roughly the size of the entire U.S. com-op video market alone. How does Sega plan to do 4? Arcade operations is a big feetor Under its imminent joint venture with MCA/Universal and Dreamworks, Sega name to set up 100 mini theme parks

centers in countries like Germany

indenstand the nature of amusement ocations " said Nakayama). The

Swhere the authorities do not

Sega Vows to Triple Coin-on Sales by 1999

ennounced on January 16 that Sega

Seria Corn. President Havan Nekayama





#### poerations in foreign markets will sour way for much-increased Seda com-on sales. "Com-op is our core businessand as such, our aim is for it to grow strongly," concluded Neisavama. This July. Sega kicks off the growth spurt by opening a new amusement theme perk in Tokyo, aiming to establish the concept in Japan.

Williams ties Killer Instinct 2 with Nintendo

Williams/Bally-Midway provinged Killer Instinct 2 to US distributors in January, and the game may be in your local arcade right now. Like the original, it's a production of British-based Rare Ltd. and will be distributed by WMS/Nintendo in a dedicated cabinet using a computer hard drive. Last year, the original game's bard drive had some technical problems here and there, but the new version is supposed to his larger and more reliable with improved mounting. The game will forture the same multimove intensive strategy as before, at least 15 new backgrounds - some which affect gameplay - a slough of new features.

and the return of one obstacters from the control, as well as three. new ones. The original KI was considered by many an oddly balanced fighter, requiring the player to memorize combo moves instead of transport complex strategies. KI2 promises to broaden the damentary with new fighting elements. Among the new festures are Fake moves. Dash moves (for some of the characters), Litres, a Super Meter (an addition obviously borrowed from Capcom's X-Meris Children of the Atom and Super Street Fighter Alpha titles), Runvotst moves, and a few more. Rare says "up to one million" combo moves are programmed into the game, but they'll be harder to find.

We asked the visiting distributors, how did the new starhs look? Their enswer: "Awesome," Of the returning characters are Fulgore Glacius, Jago, Orchid, Sabrewulf, and Spinal. The three new characters include Kim Wu, a female nunchaku-wielding Nirra, Maya. a fierce and massive blond man who fights with hunting knives, and Tusk, an over-muscled long-hair brute, reminiscent of Conen, who wears nothing more than a sheath over his crotch.

#### Acclaim Plans Four Coin-ops in 96

Accisim Coin-Op is currently debuting Batmen Forever and NBA Jam Extreme Batman Forever is licensed from Warner Bros. and samepley sticks closely to the film's storying, shabling players to take on the roles of Batman and Robin. Six levels are builed from specific film scenes including a fight ageinst Two Face's helicopter, a subway chase and the party of the Gothern Ritz Hotel.

Accidim reportedly plans to release two more bolin-ops this year. All its games will use RAX audio technology, a system which compresses audio data and stores it digitally in computer chips for 12-track stereo, CD-quality playback,

#### Namco to Buy Edison Arcade Chain America's largest arcade chain just got bigger. On January 18,

Nameo America's bid to purchase the Time Out, Scace Port and Exhilirams areade chain was approved by owner Edison Bros. Store which went into Chapter 11 in late 1995. The sale gace was lust less than \$15 million for 79 prime stores; Namco has an option on 23 more arcades with a minimal expenditure. Added to the hundreds of arcedes Namoo already operates in the USA, this puts them as "number one" in the arcade universe without any close second in sight. The purchase moons that in the space of just a few months, the five top U.S. areade chains have consolidated down to three: Nameo, Pocket Change, and Nickels & Dimes.

#### London trade show highlights new apanese and US videogames

The arroyal London trade show saw the debut of many new arcade games. Namoo urweiled its four-player tank fighting aim Tokyo Wars, while Sasta respect up to show a two-player robot Sphing game Virtual On (NO. 16): a dedicated our combat game called Sky Target (NG 15) and a video kit called Pethle Reach Golf

Konami's two player interactive simulator Road Rade was to show in London slong with its Midsorft Run driver. Telto planned to show its dedicated video Landing Grar white Capcom's latest included the 3D furbting game Battle Arene Toshynden 2 and 19XX - The War Against Destiny.



# Generator

by Mark James Ramshaw

So what do the game industry insiders do when they're not working? This month, a look at *Organic* Art — the next big thing?



the total from the importing ensures for 9%. The Warner's Organs of 16 the most total total good and when the 15 set is total to the most total total good and when the 15 set is total to the result of the property of the property of the property of the property of the contrast ensurements of the program code, to the contrast ensurements on made the program code, to the contrast ensurements of the program code, to the contrast ensurements of the program code, to the contrast to the least of the contrast for the program code, to the contrast to the least of the contrast, explained that will form the least of the contrast, explained that Athenson contrast to the least of the contrast, explained that Athenson contrast least the least of the contrast, explained that Athenson contrast least the least of the contrast that the contrast the con

The next step on from frontal percented images, Labour's arrived rame about as a result of his collidoration with profit arrived stephen foods, under the wing of BMA. In single terms, the code they developed can mutitle forms, producing "challen" with visual cones set to "passes" characteristics. The user can select which offiguring will live, and the respondation continues. It is a connect which has

possible applications in areas as diverse as musiarchitecture, and, of course, art.

What's the hig deal for gimened? Wish, the pair than to move let gime solvedperiors soon, parting thair artificial life concepts to work to ereste a new bread of software. For now, the partial properties of the concept Medicale? Soon, instead going some the power to occute battern eight extreme trib for safety delivery of the misses. If soon rather gove the game away, Lithern adorst, the sind vinces, other — it is possible those between the properties of the misses. If the partial properties are away, Lithern adorst, the sind vinces, other — it is possible.

chains the user maken at the beginning — shapen, texture therefore, the companies highing — nor evy a natural grant. From there the program wit create animated images whether constantly change and grow, the a 3D collaism of gave insets and a kniestoscope, Latham describes it as "line buying an admirated prosits," but one with near infinite prossibilities." It does not experiment to be a subject to the contraction of the contrac

It's not a game then but it's fin. And while it can be come on several results of the control of

Mark Jarpos Bassilans is free-based music and videogaren journalist, sed a software consultant. He can be e-mailed at marks/thoops-demon.co.uk.

# **Date**book

March

The 10th annual Generator Bases Developer's Conference will spoon Studied phrough Insecting, March 30 to And 2, of the Wester Hotels, Sorta Citiza Gowerston Center, Stroom Valley, CA. New Lechmony, the Conference of the Confe

April

May

The Exercises Entertainment Expo. 8.4.8. E., s. for all prottices proposes, the main game industry even of the year, and will make an opporation of the Los Angeles Convention Center from Thursday compares will be letter (Feigh, Nitterda, Sov.) them Warrer, Asta, the 300 compare, but letter (Feigh, Nitterda, Sov.) them Warrer, Asta, the 300 compare, but letter (Feigh, Nitterda, etc.) allowing the reserved great contains a compared to the compa

Orlando Consumer Biochonico Show \*96 (CES) will occur from May 23 to 25 at the Orange Courty, O

une

The first annual HMagic Awards Pestival has been moved forward and will be held this June 17 through 20 (not Agril 17 through 18), at the New York information Technology Center, New York, IVT. This swint provides achievement awards for excellence in consumer relevant established contract Bornier Harper et 1/212-431-8923.

SHOW ORGANIZERS: If your show len't listed here, it's because you heren't told an accut it. Call 2 (43.5) 463-4684, or fax into to (41.5) 468-4686, or send details to DATEBOOK. Next Generation. Imagine Publishmer, 150 North Hill Drive, Suite 40, Brisban, CA, 94005













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# Back Issues

Back issues of Next Generation are rapidly becoming collectors' items. A complete set is also an invaluable reference guide for anyone seriously interested in videogames





. An interview with Tris Hawkins (president & CEO of The 300 Company) . A comprehensive look at all the nextgeneration avatums . The Violence Tapes. Four of the world's most controversal stans developers in one virtual room



. Shigery Mivemoto (greator of Mario, Dankey Kong, Zelda, Pilot Wings) . Saturn: The complete atory so far . Gerrang on the information superhighway (sice "Asynding") . Revival of the Rittest, Why is retrogarring so popular?



\* Tom Kalinsky (Sepa US' provided) \* Opes PlayStation I've up to the hypy? \* What's wrong with the PC? (Part one) Can PC parting survive? • Making tracks (ake the noble art of come mass) • Virtue Fighter: Seturn's fighting chance profiled



. Notan Bushnell (the inventor of Pong, and founder of Atan) . Atan: from boom to bust, and back again. The complete history of the oldest videogame company in the world . An authence with Gumper Yokol, the inventor of Nettendo's Virtual Boy and GameBoy • What's wrong with the PC? (Part two). Where is the PC game some heading



. Steve Race (Sony Computer Entertainment's former president) . Ultra 64: the story so far. Nintendo's 64-bit. collaboration with School Graphers is shoulded in section. A 13-page exposé . Apple: The Rige Stuff, The story behind Apple's new game machine, the Pippin



 Peter Molyneux (Builfrog's leader and possibly the smartest guy in garring) • M2: 300 bries back. On paper, Trip Hawkins' M2 is "10 times more powerful than the PlayStation," But can 300 make it work? • PlayStation's Disciples: A look at how PS-X sames are made



 Sam Transel; Atan talks back (Atan's president & CEO) • 300. Past, Present, and Future. What has 300 achieved so far, and what does the future hold for Top Hawkors' vision? . Electronic Entertainment Exposition (E1) — the definitive show report



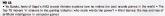
. Howard Lincoln: Why the hell has Nintendo delayed Ultra 647 . Sons Saturn: What the TV commercials don't tell you...NG special Japanese RPGs: coming to a same mechine near you . Penylaws of PlayStation's two-player link-up



. So which 32-bit system is Electronic Arts betting on? An interview with EA's VP Bing Gordon . Reality Chack: The Future of Virtual Reality - a full history, update, and thorough analysis of the state of VR . Saturn: Sega's battle



. In this the end of FMV as we know it? An interview with Tom Zito, president, Okrital Pictures . On videorames screw you up? An in-depth look at the issues and splutions surrounding the strains of videogramms . Motion Capture: e report on the newest wave of capturing

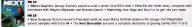




. Chris Crawford — videocamina's self-produimed "Product in the Desert" exclains the way sames pusht to be . Head to head each and every games machine rated and compared. The most exhaustive, comprehensive and controversial feature in Next Generation's history



 Sega of America's President Tom Kellnske explains why Saturn can still win the war • 1995; the year videogames abanged forever +1998; the year in recitie. What are the major players predicted to do?



. Sony Computer Entertainment's President (well, he was) Marty Homlish answers the charge that PlayStation expert accounts with Litra 64 + The Next Generaliza Lexisory a complete dictionary of sample terms, from A to Z



#### Next Generation Back Issues (US Oriv)

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THE FAR SIDE

By GARY LARSON



Hopeful parents

# How to get a **job** in the **game** industry

Videogame development is one of the fastest growing areas in hightechnology. It's creative. It's intellectually challenging. It's fun. It's outland/shly lucrative. And it can be incredibly hard to break into. So what's the best way to start climbing the ladder on your way to becoming the next Mohreux? Read on ...

n the old days — we're talking 15 years ago — it was easy. You thought up a game, toped it in to you're Apple II, duplicated a few disks, dropped them in a zije-be gwith some Xeroxed instructions and writed for the cash to roll in: That was the model for success in the game industry in the beginning. Companies Mix Activation, Informa. Serve On In 18th Activation, Information Serve On Internal Server On Intern

based on games which were largely the creation of one person. Then along came Trip Hawkins and Electronic Arx. As the former product manager for Apple's failed USA project, Hawkins emissioned a new paradigm for software development that would bring together teams of arrusts, each focusing on their particular specialty (design, arr., programming), leaving the marketing and

Broderbund all started this way quickly

growing to multimillion dollar businesses

sales to others.

Abrough Iv was, and still is, possible for one person (or a very small cann) to create the next beginning to the provision of the control of control of the control of control of the c

development budgets often run into milliors, and games have become so complicated that were one person to try and finish a title solo, it inevitably would be out of date before it ever hit the shelves.

Specialization, the division of tasks, and is corporate ladder to climb before you may be divided the same of the game now, like it control that (comewhat ladgressing) reality, the videogenies industry is still a great one to work in (and if you have to ask why you should really stop reading this article right now). If the idea of actually creating pames, working with

This is one of the last industries where enthusiasm, a sound attitude, and a great portfolio can speak louder than a degree

new technologies, pushing the envelope whether in game design, art., or programming — and working barder than you ever thought possible doesn't have an imate, almost inexpressable appeal, you'll find that working in videogames is about as exciting as resurfacing tennis courts.

exciting as resurracing tennis courts.

There are two big secrets for pecting a job in the game industry: The first is the secret that explains why Trip Hawkins will never have to shop a resume. Here it is: It's ell about who jou know. The person with a friend already in the business will know about (and apply for) the new artist.

opening long before it appears in the paper.

And, if an employee can tell a supervisor "I
know someone perfect for the job," it may
never even get there.

The second big secret is best arciculated by dw writer Ebert Hubbard: "Do your work with your whole heart soll our will second — there as to first compectation." Without a deventuring pulped for you. If you've setting out to work in videogames, you better he sure you was to do it because for really sint easy. There are probably an enery unfamiled projects and people "with great that for a general and people" with great that for a general are warne-bes with unfinited screenplays footing record Hollywood.

OK, now that the deadwood has been frightened off, we're going to actually try and offer some constructive help. The above 'secress' certainly hold true, but they don't mean that breaking into the industry is impossible.

Luckly, the 'videogume industry is not an explety for videous cricke as the videous cricke as the industry (where to get a jeb you need an industry (where to get a jeb you need an occurse, without a fear should be a jeb). First, this industry is expanding. The current takes pool and hape enough to provide for all the prospects under crick the property of the property is seed job — working your very up from the office property of the property is seed job — working your very up from the office property of the property of t

Getting that first job is the tough part. Once there, you gain experience, make contacts, and learn what it's all about. From there, whether your next job is the result of a promotion, an inside typ, or a cold call, you'll have a body of work or experience that will increase your value to a potential employer immensely.

So what do you need for that first job? Most important is an extensive amount of experience with games. We're not just talking about having played Mono through a couple of times, we're talking about having been playing games since you were eight or younger. More than that, having a good working knowledge of the industry itself - how Accisim is doing what EA acquiring Bullfrog could mean -also gives you a good foundation to work from, and will impress at an interview. Sure, keeping an eye on the bigger picture may not help when you're trying to find buss in a same as a tester, but it also has the added bonus of at least giving you a good idea of who's hiring, and who's sending out pink slips instead of psychecks.

sending our pikk slips instead of psychecks. Dowe Perry, bounder of Shilvy Entertainment (who got into the industry by writing books of program listing, both by writing books of program listing, both wery simple advice for would-be game creators: Create. "You're going to have to find some money somplace," say Perry Than go but ya cheap PC. In the PC workly you can do art with a cheap package like Delair Point or Delair Amenter. It's only To or 80 butchs. And then that's that.

You're able to draw art."

And for the less artistically inclined?

"If you're a programmer, you can program
on it. You can get languages for free, off the
incernet. There's an assembler called ABS.
Download it. If you look harder you can
find C compleme for free. Sure, it's not as
good as a commercial one, but it's a lot
better than anything I ever started with."

And how to learn? "Just buy a book on writing videogames. Those books are absolutely incredible resources that will teach you concepts you don't realize you need to know. Stuff like collisions detection. Stuff that us old foppes had to figure out how to do from scratch you now can just est the code off the shelf?"

Perry continues: "Buy a cheep PC, get everything else free off the Internet, and then get together. Find a friend who can draw and then try to do the thing. The reality is the first game you do is going to suck, but that's OK. All we — as people already in the industry, looking to hire fresh talent — need to see is that there's a spark of skill buried in there."

Figuring Out exactly what you want to do is six. This industry is excremely segmented, and saudying programming worth to be too height if your real selents lie in str. If you love games, but have no desere to reals others may be and you can learn these transfer almost anywhere. Learn moves such as these (weeking the skills learned in one industry to fit is pick an industry at any level to fit is pick an industry at any level (weeking the skills learned in one industry to fit is pick an industry at any level (weeking the skills learned in one industry to fit is pick an industry at any level (weeking the skills learned in one industry to the judgment and the skills are skills are skills and the skills are skills are skills and the skills are skills and the skills are skills and the skills are skills are skills and the skills are skills and the skills are skills are skills and the skills are skills and the skills are skills are skills and the skills are skills and the skills are skills are skills and the skills are skills and the skills are skills are skills and the skills are skills are skills and the skills are skills and the skills are skills and the skills are skills are skills and the skills are skills and the skills are skills are skills and the skill

segmentation helping people entering the

industry. "It makes it easier. You should not

very focused. A renerammer neverams. In

There are as many people "with a great idea for a game" as there are wanna-bes with unfinished screenplays floating around Hollywood

the old days I used to do my own music and art." Now it would seem that you only have to mester the one particular skill. Many people consider designing games

Many people consider designing sames their dramn job. The bad news is that it is almost impossible to land a designing job as your first position. The good news is that it can, eveneably, be reached via almost any prth. Getting your rame in the credits of a design document is somesting within anyonot's reach is cynic offers proof. simply look at the number of wresthedly designed cames out them?

Of COURSE, in addision to all the qualifications specific to the game industry, you need to have all the needed organizational and "professional" stells. There are hundreds of books on getting a job that go not for more death (and we suggest you get one), but here's a quick rundrom of the basics:

Make ture your resume is next, compact, with no misspellings, and skilfully customized for each specific position for which you apply.

"Try and offer something fresh and new at each stage of the application process. Don't cloud your skills and qualifications, but go the extra yard qualify paper, some interesting flustrations, whatever — and you'll be arrazed how often your supplication will be picked out from the bagful of 300 identical resumes for special poors.

Dress up for your job interviews.
 Sure you may be wearing shorts and T-shirts for the next 20 years, but in nothing else, wearing a tie at your interview says that you respect the interviewer and are willing to go through the trouble of putting on the irritating cultural trappings to account the lot.

• Even if you have them, don't send games you may have written along with a resumé — they'll get thrown away unlooked at (to prevent liability on the company's part if it later releases a smilar game). Make sure you note, however, that game, art, or musit samples are available on request. If they want them, they'll ask.

 Most importantly, read up on the company you are interviewing with, play its gunes and find out everything you an about it! There's no faster way to look like a moron than to be stumped by a simple question like "What do you therk of our reamed" in a interview.

\* Follow up every letter with a phone call every meeting with a letter. Be persistent, but don't be a pest. You'll have to use your judgment in discerning the difference. It can help to have an inside connection other than the human resource. Hely department, but fluuring is coo much an miff the HIR people and full your chances as quickly as aiding their short some connective as aiding their some control of their s

cranece as query as soing trem.

\* Education, or lack thereof, can be a principle. But this is one of the last industries where enflusions, a sound acticate, and a great perfolio can speek toucher than a deep openfolio can speek toucher than a deep openfolio can speek toucher than a deep one of the speek of the spee

 Whee's better, if you can afford it, is to have a great portfolio and a degree.
 Schools give you access to better computers than you can afford (especial) for artists) and more importantly, career placement offices, which ald greatly.

 Be extremely flexible. You may have a better shot at getting into a smaller company than a larger one. If it's your first job in the industry, don't be too picky.

• Dave Perry's final advice! "Try and learn the ropes, piece by piece. Don't just sudderily go in thinking you're a big gun. There's so much to learn I would say it takes something like 10 or 20 years before you really know what's going on."

The boston the divergences It, is dedication and commitment. "When you get into this industry, the people you compete against are people who are willing to sitep on the floor in the office for weeks to get the job does. So if you're stepping into that arens, you've got to be determined to get in these and flight. It's by no means a 94-0-5 job or an easy job, but it's really rewarding."

#### Over the next eight pages

profiles that includes salary ranges, job responsibilities, and relevant qualifications of four entry level jobs in the game industry are likeling. Each position is easily obtainable by romenone with the prerequience, and gurning for one of these jobs as probably the best bot for a newcomen aiming to trans into the business. Afterward, we provide a complete it is of schools and colleges, followed by all the connects you'll ever most to bombard with resumbles.

## Win a chance for a job



it's all about who you know." At the very least, having an inside contact can only help. So Next Generation is

volunteering to use its contacts within the game industry to score a selection of world-be game experts (depending upon the number of suitable candidates) services job interviews with leading game developers in the US.

we can guarantee a lob, but we we can guarantee a lob, but we can guarantee that one — or more — Next Generation reader will receive a scriticas pib interview, with a view to securing a full-time postero, Videogame teaching isn't seasy or recessantly from all off of the time (try playing your least feverine game 10 hours a day for a month), but it is a

hours a day for a month), but it is a great way to get into the industry. To enter, please send a complete one-page resume, a one-page cover letter, and a one-page explanation of

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o you want to be a game programmer? Then put your money where you mouth is and start coding your own glenes, in this exclusive competition, Next Generation as giving away the ubmarke prize for building game developers, a Sega Genesia

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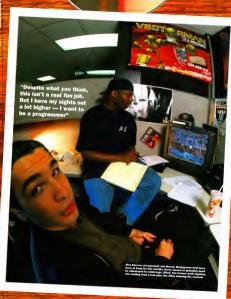
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## Game Tester

Responsibilities

Extensively playing pra-release software to discover bugs (arrors), gemeplay anomalies, and varifying manuals and hint books, following a test plan, and writing up detailed, concise

Uppers: Wall, you get to play all the new games, but that's usually only fun for most people uppers. True, you get to pay at the new yames, our each owners only an incidence proved the first couple of days, especially considering you'll generally shart testing when the game is fair from completion (i.e. before it's actually tun). "Chasing down the bugs is a lot more fun then actually playing the game, usually," says Marc Weaver, a leed tester of Turning Point wath accounty paying one gainte, ususkey, says near a receiver, a read tereor as furning room. Software, "It's tun toying to find the most asoteric bugs you can." Taxing is also one of the best continued. It is not repaid to mak the index assured bugs you can. Having to dead out on the ways to learn basically everything that is going on all a company, where it is understaffed, where the company is going (based on the quality of the games you see, at least), etc. Downers: "A lot of people think being a game tester would be great fun," says Dermot Lyons, director of hast at Sega. But it can be really be extremely tedicus. You can sometimes be on a game 8 hours a day for two or three months." Also, testing, or quality assurance, while essential to the release of a product, is the least respected expect of product development. It's an almost entirely thankless task; if you do your job poorly, bugs ship in the product. If you do it well, you hold up release schedules because they need more time to fix all the bugs. Don't export a lot of pats on the back from programmers or anyone else when you tost

Salary Range: Suitable Qualifications. Salames start at around \$8 to \$9 an hour

"When hiring, we look for two things," says Lyons. "The first is a good gameplayer, because we need people who can play a gams and get through it in a short amount of sine. The other thing need people who can play it wants also get intrough it in a seart action of time, the other we look for its good English skills. We do a lot of bug writing, and you have to be able make we have, at is grown strayed stone. We do a lat or day writing, alla year land to we away treat your point, clearly, so that someone else can understand it, even when you're not sitting there in the room to explain what the problem is."

Suitable Experience:

As long as you've got the qualifications, the experience doesn't matter all that much. Segs, for instance, hims kids as young as 16, although it prefers recent college greduates, 22 to 26, or so, it even has some testers pushing 50. Be able to prove you can play games and write,

Possible Career Progression:

and you shouldn't have too much trouble. Testing is basically considered the back door way into the development slide of the industry. "For the most part, if you look at the assistant producers [APa] here at Sega, the great majority of them came from test," says Lyons. "In test, you've got a lot of options open to you, it's not on them cerns from idea, salve Lybris. In tees, you visigon also, at opporter open to you, as the cast of the first first very competitive. But if you excel, you can get a job in marketing, in the fact. area, or as an AP." In general, the route is to go from basic tester to assistant lead tester, to lead tester (of which point you will be working directly with the programmers and product manager, writing reports on the garne's progress). From there, you could either stay in testing as a supervisor, or make a jump to another area of the company. It's important to note, though, that the industry needs a lot more testars than assistant producers, so if you aren't sharp, you can easily find yourself "stuck" in test for an extremely long time — we're taking years - before anything also opens up. Unless you want to make quality assurance your specialty, you'll find that if you stay a bester too long, you become somewhat "typecast" and it becomes hard to break out of it. Not as hard as their other "entry level" job, customer service (which can be such a dead end that it isn't profiled here), but shi tough,

Inside Information:

Atthough outsiders often find it hard to break into quality assurance (because the testars know about jobs early and tend to "get" them for their friends) the mailty is that a major softwere house is going to be hinning testers on a fairly regular bods. Most companies have job hotimes so well, so don't was for want asis to appear. Call the human resources department at the software developers in your area (this is where it pays to live just south of San Francisco, by where we example in you are time is wrete it pays to are just sound or dan mansaco, by the way) regularly, and you've get a good chance that something will turn up. The other gradthing about testing is that it's other possible to do it part time; after school, or at weekends...



#### Public Relations

Key Responsibilities:

Generating publicity for new products, writing press releases, dealing with the press on a daily basts, providing screen-shots, demo software, seeing up and running trade show booths, proces events, publicity sturits, etc.

Uppers: "The II became the control of the control o

Downers: "All the tight deadlines," says lang. "A press person will call you at the very last manual, and need to screen, a beta rex, and a story, and his deadline is in the hours and we have to really scarzatio ever here. And it snot just once person at a trier, You may be doing the same thing for three people at once." Adds from, "Beyond all of that, you have to find time to program and the story to the story of the story to the story."

Public relations pays \$18,000 to \$25,000 to start

Salary Range: Suitable Qualifications:

A depose in commiscionion, il giunno del sistemo del sistemo del recisioni del recisioni del recisioni di commissioni di commissioni del commi

Suitable Experience:

need to have good contracts. No in the source of the players are. You resuly have to know the inclusing and going habity because the inclusing an iso dynamic.\*

Take a first of witting courses, large from port or the inclusing year. Any of the players of the inclusion of the players of the inclusion of the players of t

Possible Career Progression:

confident that you can deliver you prich in a way the full locate them?

From PR grunt-work, like sending out taxes and mass makings, cold calling strangers, being e governt, butting a dose relationship with eclass with girth green sending, out calling strangers, being e events, butting a dose relationship with eclass (who you may also see codesily), and managers other cubic infation services.

Inside Information:

"One of the best things," says Tang, "is that once you build a relationship, you can kind of hang loose. You don't have to keep up a PR front all the time. After a Sego Gement Day, a group of grees people and I hang out in a lotal lobby bar dinking and shooting the breeze. And that's where you and out who the most interesting press people are..."







#### Artist

Responsibilities:

Salary Range:

Building 3D environments, models, and props. Designing texture-maps, creating 2D backgrounds end sprites. Creating storyboards, character sketches, and designs. Design of

interface elements. 3D and 2D animation. Uppears: "I get to work on the sweetest equipment possible," says Alex Techetter, 3D computer artist at CyberFlix. His enthussism is typical. Computer art in general is a very young medium, and there is plenty of room for experimentation and trying new things. Want to create the look of the next Mario? Go aheed.

Downers: Long, long hours. "It's impossible to get it done in an eight-hour day, says Tachetter. 'Or, you can spend hours working on a jush piece of art and then when it gets dithered down to 8-bit, it just loses something."

\$25,000 to \$35,000 to start (plus royalbos)

Obviously, you need talent at art -- a lot of it, not to mention a good imagination. Just being able to draw space ships lan't going to cut it. An art degree is else a big plus. "You could get a job doing graphics in general without a degree," says Tscheller, "but people look to see if you've got the gumption to stay in school and learn a trade. Ultimately though, what they're looking for is to see whet you've got on your demo real. Lots at people will noodle around on a home system, but the actual quality of the package you can put together is always better if you've been to a school that really specializes. If you do it at home, the colors are always bad and the animation speed is always wrong. If you're looking for the best reel, you want a school with great equipment. Don't go to a school with PCs or just two SGIs for, say, S0 students."

Suitable Experience:

Suitable Qualifications:

To start out, you might not need much work expenence, but you will need a strong portfolio, the more diverse the better. If you're specializing in 3D modeling and enimation, you'li need to have a VHS demo tape available. 3D is no fad, so if you aren't up to speed on one of the prodominant SGI 3D packages, it's time to take some refresher courses. Even if you don't have access to an SGI workstation, start working on 3D modeling and animation on your home or work PC, now

Possible Careet Progression

If you start at a large department, where your job consists of cleaning up other people's art, or smiler grunge work, you can hope to move up to leading an art team. Eventually, you'll want to be the art director on an entire project, supervising your own team of artists end designers. to be use as smooth sal as maker company, you'll probably have a lot of freadom to exercise your vision from the start, but there will be fewer opportunities for advancement without switching companies. Eventually, you could end up as the head artistic person at an entire company.

Inside Information:

"if the first thing you want to do is work at industrial Light end Magic, prepare to be 'animator 247," as opposed to who you are, " says "schetter "if you're content to work in a big place and zer, as opposed to wire you are, says racinotes in you recall and a significant take orders all day, that's cool, but if you want control, go to a small company. You'll make less, but there's a hell of a lot more freedom." 3D art and enimation is an extremely young seas, but she'd's a new of a run motte menuum. Ou at any semination is an source by yours, field, so there's plenty of room for monadors. "There's in obstock you can look at to see how to be a successful computer aramstor," concludes Techetter, "Just make sure you have the keys to building so you can stay there at might."



#### Programmer

Responsibilities

Salary Range.

At arrity level, programming duties will anterlicts of schoting, working from a design ou army sives, programming dused was efficient alto or europeing, monthing storm a design document, and assembling the actual game (high-level people do the engine creation) Uppers: "You know other people will sea it," says Laird Malamed, technical director for Zork Nemassa at Activision. "Ya very tangkte, You can hold the finished disc in your hand and say 1 did that. You're not working on a graphical interface for a your name and say 1 on that, 100 to not working on a graphical number or a scanner that 15 people will buy." Not to mention that good programmers are considered

Downers: Dealing with the limitations of the hardware. "You can best yourself sanctings trying to make something work! says Malamed, Games are a collaborative effort, continued by the new some continued successing work, buyes materized, commended to a consuctance so you can't always so he technical problems your way. And of course, the long hours,

\$30,000 to \$50,000 to start (plus royalties)

You have to know computer languages, particularly C and C++ vary wall, Knowling assembly is also a huge plus. "We see a huge number or resumes," says Materned. A degree stands out, but equally important for a programmer is the parsonality will I want to be here at 2 in the morning with them? Wa look for paople who have worked in computer science, but their pravious work doesn't have to be in games. The lead programmer on Mech Warner II worked at TRW."

Particularly if you don't have a degree in computer science, you will need some strong evidence that you can code as well, or better, than someone who has a degree. "Most of the people we hire have a degrae, but that's because most of the paople who apply have a dagme. Most people who are interested in programming before college major in it," says Malamed. More than thei, though, "We look for initiative — people who, evan at school, were working, doing projects. Someone well rounded. People who have ideas and are thinking for themselves really grab my attention. You have to be self-motivated. Every piece of code you do affects what other people are doing." Disgence to a design document is also essential. Even if you come up with a way of displaying graphics routines batter, if no one also uses it, the end result can be inconsistent, and your efforts are basically a waste.

From doing sout-work you can aventually move up to the exciting stuff -- low level (assembly) programming of game engines, and routines where speed is essential. This is where true programming skill can shrea through; the ability to code elegantly and conclusely, to produce the most results with the famest amount of code, to make and concisery, to produce the intermediate with the darest disease, you can work on the hardware perform tricks it was never intended to. From there, you can work on tha technical design document (planning what the sout workers do) and from there, you could move more into design, stay coding, or (gasp) end up in management.

Get roady for long hours, especially around "crunch time," the time just before that product is supposed to ship, when, invanably, bizarre new bugs crop up, higher-ups suddenly decida to add features, and there is always one more thing to do (and of course, complie times are at their longest). Except in retrospect (when it seems pratty romantic), crunch sine sucks. Although, as Malamed notes this a vary highenergy stustion. Few other professions have that group energy, I don't see lawyers or accountants enting around at 4 in the morning going 'Yeahi Wa made a great spread sheet!"

Suitable Qualifications:

Suitable Experience:

Possible Career Progression:

Inside Information

## **Learning the Ropes**

Nothing beats proper training, and staving in education has to be the best bet for would be game creators. Here's a rundown of what's available



t's slowly becoming possible for easer artists. designers, programmers and others to find schools that offer curricula and programs reared toward the specialized needs of

came programming and design In North America there are non institutions that have built programs. specifically around a degree in game design The most well known is DialPen (NG 6). located in Vancouver, B.C., With sponsorship from Nintendo of America and Wavefront Technologies, who provide both

financial and technical support, DigiPen's intensive two-year program covers the entire spectrum of "The Art and Science of 2D and 3D Videogame Programming." The first year emphasizes mathematics, highlevel computer programmine (including C++ and game-specific algorithms and graphics applications), game concepts and storyboarding, and introductory low-level programming. The second year continues with more advanced low-level programming, using Super NES

development kits donated by Nintendo, and ends with teams of students designing and implementing their own game designs (there are plans to shift the course emphasis to next-reperation systems at some point in the future, but Nincendo and DarPen have yet to set a timetable) Tution is \$9,500 Canadan dollars per year (about \$6,100 U5), however, the school only accepts 60 students annually and has a

waiting list through the year 2000 In 1995, the slightly less well-known New Bounswick Community College in Miramichi, Canada, began offering an 80week program in Electronic Game Design. The theory at N.B.C.C. differs slightly from that of DigPen, and places some focus on management and marketing skills as well as technical courses. Therefore, in addition to C and C++ programming, computer graphics, digital audio, and game design, the program also includes course work in project management, software packaging, and laser disk production. The good news is that tuition is ludicrously cheap: \$800 Canadian (about \$550 U5) a year.

In addition to those schools offering amorams specific to some design, many art schools around the country have begun offering programs in 2D and 3D computer graphics, and other programs that can be generally lumped under the heading of multimedia production," which can be invaluable to those looking for a career in some strobics or in some cases can add useful artistic credentials to someone who already has experience in general computer programming. Course work varies from school to school, but good ones offer charge not only in 2D and 3D graphic design and animation, but also extend that to areas such as digital video, digital audio, MIDI sequencing, and project design.

A general rule of thirth when searchine for a good program is to find out first what kind of hardware and software is being used to teach the courses - they should at least be able to provide high-end PCs or Macs, or better yet, Silicon Graphics workstations - and then determine what the workstation to student ratio is. If you can't use your own marking you're not soins to set the most out of the program.

Also, be sure to check the kind of companies the school's graduates have gone on to be employed by - if they seem to favor advertising or commercial design, the emphasis of the program may not be what you're looking for

(although, keep in mind, a school can only teach you skills, what you do with them is entirely up to youl. It's clear that

the game industry can take its pick of those looking to work in game design. There are a large number of people who want

jobs, and only so many to go around. A distinguished education with the right institution can make a difference — but no school can teach you to have an imagination.

Contact Game Schoole

paton Chil DigPen Applied Compute 5th Floor, \$30 Hormby St Ventralier BC WC 2F7

Careda (604) 682,4900 dramiDdoore com

New Brunswick Community College College Admissions Service i Arran St. Carnobellton, N.B. ESN 3G3

Drinds 506) 789-2404

Ann Lawrence San Francisco Azademy of Art College 79 New Montgomery San Francisco CA 94105

Lecte Sterrago Art leatitudes Income. 526 Plans Avenue Producijn, PA 15222 1-800-592-0700

Admissions Officer Cogwell Polytochrical College 1175 Bondraux Dr Sannyude, CA 94089 (408) 747-0100 1-600-244-7955

Jim Death Ranglang School of Art. & Design 1700 North Tamsen Tred Surescott, Rt. 34234 1714: 351-5100 Admissions Officer 2526 27th Avenue 5 Hinnespoks, MN 55466 1-800-800-2635

#400-1168 Humiton St. Vancaner R.C. WA 201 -900 661 4101

Actes: This last of art colleges is far from complete, or a more comprehensive listing of courses and olleges available, we suggest you contact your local arreer office or educational governor courselor.

### **Advice From the Experts**

Professional recruiters are hired to find employees for game companies looking to expand. Who better to tell you what it takes to get noticed?



hen a company needs new personnel vesterday. is hires a recruitment company Recruiters do a lot of the timeconsuming work for companies by prescreening candidates and matching their qualifications to the

company's needs. This way, the company need only interview candidates who can at least hit the ground running The game industry is like any other,

and there are a few recruitment firms that specialize in handling the needs of game companies. So what is the experts' advise? The best way to get a job in the came industry is already to have had one hur in an odd way this has recently

worked in favor of those with little or no game experience. "Game componies are realizing. How long can we keep feeding on ourselves!" says Patrick Newburn of the Brelon-Page Agency, "What's harmoning is that (as companies steal the best people from each other! the salaries for rame programmers are skyrocketing almost beyond belief. We're beginning to see things loosening up. We used to see employers saving 'No, you've got to have it frame desirn experience?, and a lot of them are still that way but now we're beginning to see them say, Well, if they've done fam sort of 3D explict or if they've done any land of realtime, low-level programming, we'll go shead and take a look at their resume."

So, while companies still would prefer to hire people with same designs under their belt, in the last year they've become more willing to pick up someone with less, simply because they can pay them less

Which doesn't mean they'll hire anyone off the street. Programmers still have to know how to program and graphic artists still have to know which end of a penal makes the marks. On the technical side, recruiters look for candidates with a strong background in low-level, 80x86 Assembly language, and C++ (1996's highlevel language of choice). Those looking for a career in game graphics need strong

artistic philities and at least some familiarity with the major computer graphics and animation software packages, especially in the field of 3D design.

The needs of the game industry are different however from those of husiness software or advertising companies According to MI Zinner of Premier Search. "If you're a 3D artist, you don't want to send them a demo full of fiving logos. Print loons are death they don't want to see flying spaceships or rotating worlds either. They want to see organic forms. something creative; humans, animals, fantasy creatures..." This is the key Beyond any technical qualifications same companies need imaginative, creative, and dedicated people who above all love rames.

Parriele Newburn ours it this way

Beyond any technical qualifications, game companies need imaginative, creative, and dedicated people who - above all love games

"When we started working in the game area, we were telling the people we represented. Now, I want you to dress appropriately for the interview, and we'd make them dress up and send them out to the same company and then we'd set a call back from the renducer and thavid say Well, we liked him and all but he's just not our cup of tea." And I'd go "What do you mean? He's got all these great outifications' and on and on. And (the producer] would say 'Well, he's just too conservative for us. The fact is that once they know you can do the job, they're mostly interested in what's in a candidate's head, what's his creative slant, and they must have something that shows creativity.

Procedures are changing (we would certainly recommend wearing a suit), but the underlying principal behind Newburn's example holds true. It's your artistic flair

and dedication that matters in the end. For a programmer, this means making rames on your own. Design and release shareworn games or at least let your interviewer know you've got a playable demo (one important note: do not send a demo with your resume on speck. Because many companies fear being sued over who had an idea first, all unsolicited game ideas get a one-way trip to the trash bin. Include a line that says "Sample games available upon request" with your resume then wait for them to ask). For an artist, it means having a norrfolio that includes highly detailed work, whatever the medium, that shows imprination and an ability to

conceptualize even the most hizzern ideas Here are some recruitment agencies specializing in the same industry to contact once you have your portfolio completed.

effrey Allen Associaces 6060 Comercione Court West, Solon 314 San Diego, CA 92121

Pearson and Associates 1 IBH North Titters Blvd , Suite F-129 Phopolo, AZ 85028 pearage@syspec.com

Hax Sturnow / jill Zineer / Parsels Thompson Premer Saards, Inc. 2860 E. Ranningo Rd., Suns F Las Vegas, NV 89121

Schwieckler Associates, Inc. 200 Tarnal Vista, Bidg. 200, Suite 100 Conte Madera, CA. 94925

Michael Kutz & Associates One Rathel Ave Tiburos, CA 94920

Bernie Scharf Seurch Associate 14640 Victory Blvd, Suite 100 Van News, CA 91411-1623

Virtual Search 2261 Murkey St. #141 San Francisco, CA 94114

## **Company Contacts**

One of the biggest complaints we hear from job seekers is that they have a hard time finding contacts at companies. Calling a phone number found on packaging or in ads often leads to a dead on — and often smaller companies aren't in the phone book. So hee, for your perusal, is one of the most comprehensive recruitment contact lists in the industry, color-coded geographically. Write away, but call at your peril. These are very busy people, and annowing the person who stand between you and a job is a very bad idea.

Pruf Provenzano
20in Carrusy Fine Home Enzertal
2121 Avenue Of The Stars, #25th
Los Angeles, CA 90067

Edic Harris
3Dfs Interactive

Edic Harris 3DE Interactive 415 Clyde Avenue Subs 105 Mountain View, CA 94043

Shell Menegheto The JDO Company 500 Galveston Drine Redwood City, CA 74053 Brid Budwen

6158 Temple Hill Dr. Hollywood, CA 90068 Sheri Denning 701 Level

Stern sub-seq 7th Level 1110 East Collins Blvd, Suite 122 Richardson,TX 75081 Bill Warsworth Absolute Featmanness

David Curds Access Software 4750 Wiley Plot Way Bidg 1, Suite 200 Pids Laker City, UT 84116

Rob Horga Acciain Coin-op 2593 Coist Ave. Mountain View, CA \$4043

Glen Core, NY 11542-270 Jill Higgers Accollede 5300 Stevens Creek Bird. San Inse. CA 95129

Dars Hyde Activition 11601 Withine Blvd. 10th Roo Los Angeles, CA 90025 Bonnie Havmer

Bill Lewis Advanced Resources 5201 Great America Parlovay, Suite 1

Santa Clara, CA 15054
Halen Proventiler
Asser Software, Inc.

Mance Korkle Aleandris Studios 872 Higuera Street San Luis Obapo, CA 93401

110 Reservoir Street East To reproduct TARIO ME SP CINCELA Juon Gray Abys Software Corporation

San Francisco, CA 14133 Keith Hettger Amusing Meda 35 San Amelino Avenue San Anselmo, CA 94960

Dave Davis Arriences Laser Games/QQF 4901 Lenceln Road, N.E. Albequenque, NM 87109 Diego Angel

Carlsbot. CA 92008

Dennis Streveler
Annus Tels International
1650 South AmpNett Blvd. Suite 212
See Muse CA 94401

Anthony Anderson Ant Software 3077 S. Quance Way Denier, CO 80231

Gartané, TX 75043 George Broussard Apagee Solovare 3140 Broadway #235 Garland, TX 75043

Asiri Corporation 1195 Borrega Avenue Sunnyvale, CA 94089 Patrick Breen

PO Box 523 Mediord, MA 02155 Kenn Blaker Autodesk, Inc 111 Holmus Parkway San Rafael, CA 9490

III Helinna Parkway San Rafael, CA 94903 Igor Gazowostu Barkalay Systems 2095 Rose Street Barkalay, CA 94709 Constance Garbour Beineda Schworks 1370 Piccard Drive Rodindle, MD 20050 Nonko Kame

San Francisco, CA 94107
Miles Bratil
Big Tree Software
7602 Prodes Dr

Robert Bayes Betraggers 1021 S Wolfe Rd , #250

Saneyvale, CA \$4086-8806 John Bonti Black Ope Encomment, Inc 2121 Cloverteid Bird Sales 2

Christins Cade Blizzard Entertainment 19940 Prame Avenue Terrance, CA 90503 Dana Christianson

> lan Diego, CA 92122 Dana Miller BMG Interscrive 1540 Broadway 13rd Floor

BMG Interactive 1540 Broadway, 33rd Floor New York, NY 10036

iofic Games © Concord Crossing #1 concord PIA 01742 im History ports & Associates

Spering VA 20164 Sech Mendelsohn Boss Game Soudos 8414 154th Avenue, N.E. Rackmond, WA 98012

Lie Chang Broderband 500 Redwood Box PO Box 6121 Names CA 94941

Brooktree Corporet 9868 Scrimon Road San Diego, CA 9212

Capcore 475 Oakmend Parkway Sunnyvale, CA 94085



Georgia Giannii Cistapulti 20023 Stevens Creek Glief., #300 Cullettino, CA 35014

Dand Kalish Ceridus Software 7 Walsh Dir MIT Valley, CA 94941-3600

Compaq 1111 Bayhill Drive, Suite 473 San Bruno, CA 94066

Creatine Libs 1901 McCarthy Bivd Milotox, CA 95035

Sarah Bernedesso Cyclone Studios 35 IS Edison Way Menlo Park, CA 94025

Lesie Pardew Cygrus Maloreedia Productions 776 East 930 South American Fork, UT 84003

Digital Pictures 1825 South Grant St., Suite 900 San Maren, CA 96602

Tim Johnson Digitalwest Interactive 19229 Sonoma Highway, (201) Sonoma, CA 95476

Others Bosses Domark 1900 South Norfolk Street, Suite 110 Str. Mateo, CA 94402 Phil Michaelson Dresm Fabrication & Design 655 Retwood Highway, Saite 301 MII Valley, CA 94941

Bectric Sky 2066 NW Inving St. #2 Portland, OR 97209

Bectronic Arts 1450 Fashion Island Blvd San Maceo, CA 94404

Rick Goodman Ensemble Studios 1265S N. Central #700 Dallas, TX 75243

Epicenter Interactive Inc 23493 Pacific Coast Hwy #201 Malbu, CA 92265

Mario Vassaux Formgen Corp. 7641 East Gray Road Scottsfalls AZ 85260

GameTek 2003 Landings Drive Moursan View, CA 94042

Journe Leao Greety, Inc 635 Second Street, Suite 405 See Francisco, GA 24107

6d Piles Hollatic Design, Inc 5002-H N. Royal Arbanta Dr Tucker GA 30084

Shio jones Hyperbole Studios 2225 Fourth Ave., 2nd Floor. Seade, WA 98121

RM Corp 2 Tenvested St. #1-806 See Francisco, CA 94107 Jay Wilbur Id Software 18601 LBJ Freeway, Suize 615 Heasurts, TX 75150

Veronica Willareal Iguana Entertainment 5410 Fair West 8Md, Suite 301 Austus TX 78731

Ellen Guan Blueon Machines Incorporated PO Box 202493 Austro, TX 78720-2493

Darren Bartletz The Blascott Garring Co 10 Liberty Shp Way #350 Separation CA 34985

Terry Senth The IrragNation Network 577 Apport Blvd. Barlingame, CA 54010

Geta Water Interactive Magic 140 South Center Court, Suite 800 Morroville, NC 27540

John Hight Jones Intracable 9697 East Mineral Avenue Enthropol, CD 80112

Carry Berlon Jumper Jack Software 1701 Novaco Blvd Novaco, CA 94949

jurgle Vision Software 1432 University Are (001-8 Berkeley CA 94702

Torrance, CA 90504

Marcha Cooper
Kessesi Corporation
230 Court Square
Chysicssessis, VA 22702

Bill Dempory Kinsoft Development 772 W Algorique Rd Arlegton Hogins, IL 60005

jm Colello Konsm (America) Inc. 900 Decrileld Parkinay Battalo Grove, IL 60089-4510

Parrica Winters Kroeos ISO South Arroyo Parliway Paradesa, CA 91105

Leaping Litterd Software 18221 A Bower Holl Way Garthersberg, MD 20879 Rosse Freeman

Charolly VA 22021 LG Sectronics 1000 Sylvan Avenue

Kenneth Hoore Lightning Solovare Devel & Design, Inc 12325 S Redwood Rd Riverton, UT 84065

Laune Seldwee Line Eries santress 8100 Shoal Creek Blad at 10 Austin TX 780758

Robye Berry Living Books 160 Pacific Avenue Mall San Francisco, CA 94111

Paul Lang Labotony Saltware, Inc. 9023 151st Avenue N.E. Redmond, WA 36252 Looking Glass Technologie I Alewin Center 8650

LucasArts 3140 Kesmer Bivd PO 10307 San Rahel, CA 94901

Magnet Interest 3255 Grace Sor Washington, DI

Susin Lowder Maiss 2121 North California Blvd, Suite 600 Walnut Creek, CA 94596 Tracy Shapher Meda Susson 1140 Essahower Place Ann Arbor MI (RUS)

Arbor, MI 48166 is Harrington in Soudios 07 Garrera Road

Katy Doran MHB 705 2nd Avenue, Suite 1500 Seattle, WA 98104

Microprose 180 Lakefront Drive Hunt Valley, MD 2 1030-Held Bettner

mesa bezzer Microsoft Corporation I Microsoft Way Rediscond WA 98052 Carl Jacobson

Plongfr Garnes 184 Wilege Dr Compe Grove, OR 97424-Mark Engelberg Minds Dye Ensertancest 11410 NE 124th Sc #594 Kristenburk 18850

Brian O'Nell Mind's Eye Entertainme 14555 Blanco Rd a511 San Antonio, TX 78216

Gene Sewell Mind's Eye Garnes PO Box 199 Millord Square, PA 18935 Tash Frontick Mindiscape Se Balliannian Jack Door Monarch Analon, Inc 4517 Harford Balamore, MD 21214

Brian Appar Mouth Sestractive, Inc. 2455 Latham Street Suite (0) Mountain View CA 34040 Allen Woomberg HIPC

4 West 10th Street New York NY 10011 Joel Jewetz Neversofi Entertainment

Woodland Hills CA 9136 Argyre Socraces Passus New Source Interactive 4701 Doyle St. pt1 Emeryrelle, CA 94608

Deane Rerog New World Computing 29900 Agora Rapel Suite 200 Agora Hilb, CA 9(30)

Nothines Graphes 12555 West Jeferson Bird , Sune 285-Los Angeles, CA 90066 Joid Albro Nimends of America 4820 150th Aerous, N.E. FO. Box 957 Entomod No. 86552

PIO Box 957 Redmond, WA 98052 Helid Setton Nesendo of America 4230 ISON Avenue, N E PO Box 957 Redmond, WA 98052

Disra Kaustanich Northstan Soulios 3603 South El Carvino Real, 3nd Room See Masso, CA 94403 Doug Allen Clak Technology 139 Krier Ct. Sunnyvale, CA 94086 Lyrese Nouders

1870 Lette Orchard San Jose, CA 95125 Norma Vargas Origin Systems

Origin Systems 1918 West Cournard Driv Ausza, TX 78730

Sazai Hawken Pandgm Smalabora 1490 Landmark Blvd , Suite 400 Datas, TX 75240 Marc Tacching Pandine Software

Ann Arbor, PR 49104 Philips Inceracive Media 10960 Wilsham Bive: Suns 700 Los Angeles, CA 90024

General Vel Playestes Interscove Entertainmen 1620 Togas Vilay La Hirath CA 90638 Dand Williams

Powerhouse Entertainment H4550 Quorum Drive, Suite 200 Dallas, TX 75240 Huhlel Kingalari Presoo Stadios 9888 Carroll Center Road, Sans 22

968 Carroll Center Road, Sace 228 San Diego CA 92126 Brzooks Professional Employment, Inc 150 North Wholer Drive, Suite 1020 Chicaro, IL 49005

Robert Ross Prometheus Sofovare 4202 Windparer Dr. Hoeroe NC 28110-7866

Chris Trensmell
Qualue Entertainment
660 East Yorks Linds Blvd Sues
Placercia, CA 92670
Reservations
Charles Berns
Charles Land Software

Robert Berns Quicks Iver Software 17881 Sky Park Cycle, Suite H Iveae, CA 92714 Hou Brens

Random House Electronic Publis 201 East 50th Street, 3rd Floor New York, NY 10022

> 539 D'Onafrio Drive, Suite 1 Madeson, WI 53719

John Grued Restore Associates

Restorne Associates 1320 E Imperial Antra. El Segureto CA 90245



Sancouary Woods 1825 South Grant Street San Maren, CA 94422

Say What Software 880 E Campbell Ave #202 Campbell, CA 95008

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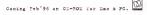
a near-death experience.







dramatically.





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# alphas

Previews...for men who don't eat quiche



Here's a few of tomorrow's best games

A futuristic blend of racing and action with a rice, strong graphs; sunch

60 Manx TT ARCAGE

Following in Namco's factsteps, Sega pears up with this existic 3D motorcycle racer

62 Top Gun PLAYSTATION

Spectrum Holabyte makes use of Its Paramount friendship in this new flight sim

64 Tenka PLATERIUM

Nurging strategy and puzzles to the Chore model, SEE begins its second generation

66 Civilization 2 re

Microprose works to bring new life to its strategy lineup with a sequel to the classic

69 Afterlife 🗝

LucasArts creates what may be one of its best over strategy games

Sega hope to prove that action is the backbore of gaming in its brastiful shoots

7 Krondor MAR, PC, PLAYSTATION

Up against stiff competition, 7th Level hopes to prove itself in the RPG arens

Frem physics models to 30 landscapes, Paradigm shows its "sitra wings"

80 Deadlock pe

More than just a good-looking game, this promises to bring scores of gamers together



XT GENERATION April 1998

Shiny has

# MDK

Shiny Entertainment tries to show the world it's not just another bunch of pretty faces with its new, grim and gritty PC action game



pulled out all definitely being typecast as developers the stops of cutesy platform games," said Shiny in creating Entertainment's producer for MDK Nick Bruty, "but the folks at Shiny have what it hopes done all kinds of games and have a lot of different interests and really wanted will be the to get away from that for a while." And ultimate game they're doing so with a venueance.

planet wreaking hovoc as many Earth In the year 1999, the cities are simply run over in their quest. for valuable resources. Millions die, and Earth is invaded by the internalactic megalomaniac Gunter Glut, He's snared the few Earth people who are left have

for Disney and Virgin). Aladdin for Sega Genesis. "We're Origin: U.S. the Earth in one of his universe spanning electric "Streams," which has brought the rotation of the planet to a grinding halt and enabled Glut's army of "Stream Riders" to cross the wast distance from their home world. With them come Gunter's eight mining cities. Enter MDK, the working title of Shiny's unimaginably gigantic mobile platforms experience which crawl over the surface of the first-ever PC effort.

probably best known

and before that (when

as a group it worked

for Earthworm Jim,

Publisher: Interplay

Developer: Shiny

Release Date: November



no choice but to hide as best they can. But there is hope. High above the surface of the Earth Doctor Fluke Hawkins has spent the last flur years stuck in a "flange orbit," along with his genetically engineered, six-legged, and Invoer-intelligent dog, Bones, and his

protégé and lab assistant Kurt Hectic. When Glut Invaded the Farth, the Doctor grabbed Hectic (the closest thing to a warrior who was handy) and guickly outfitted him with whatever inventions were at hand, including a

bullet-regellent suit, a body-mounted gur, the atmosphere-grabbine Ribbon Chute and beans of other condise their dropped him on a hastily conceived

Each of the game's eight (or perhaps nine - the team hasn't decided and a soulds have been district into four stages of gameplay: Freefall, Traversal, Section, and Blastoff, In Freefall, the player dives from the air onto the surface of oce of Guntre's mining platforms, steering through radar

devices and alarms as he plummets. Trioger enough alarms, and you'll be rickging surface-to-air missiles too. The game's main action takes place in the Teauresal stage where - since

Hectic's gun can be worn on either his arm or his head - the player has a choice between two distinct styles of play. When arm mounted, it functions as a racid-fire machine gun, handy for mowing down large

numbers of close-athand enemies. This is Action Mode, using a second-person view. hehlad and above the player, and gameplay Is vaquely Doom-like. When the oun is headmounted. Heetic lumps into Stiper Mode, and the perspective shifts to a magnified view straight through the























barrel of the gun. This mode is useful for

hitting specific targets from a long distance. The designers at Shiny have tried to structure the game to reward sneakier players as well - it takes longer, but it's safer, and you're more likely to find special items. The Boss Section is, perhaps, self-

explanatory. The Blast Off section is much like Freefall, except in reverse, as Hectic makes his escape through the now-alerted mining city defense systems and attempts to cain the relative safety of the Doctor's orbiting platform. Shiny has pulled out all the

stops in creating what it hopes will be the ultimate game experience. The company has committed itself to using

only high-res 640x480 screens, with beavily detailed texture-maps and complex motion scripts and systems of behavior for everything that moves. It's shooting for Virtua Cop-style reactions among fallen enemies, and especially bosses, but has gone Virtue Cop one better. While all characters are fully



moved and matched so that very few reactions will look the same twice.

The effort is even more impressive when you learn that Shiny intends to write each line of code in low-level machine assembly code. It also intends to utilize the power of every graphics card and 3D accelerator on the market "The fact is that regular VGA is boring," arques producer Bruty, "It

works one way and conforms to one standard, which is why everyone uses it. Most graphics cards do a lot of exciting things that almost no one ever exploits. But If you've got a card that can do automatic line drawing, you ought to be using it. It works faster and looks

better, but no one does because they've got to deal with like 20 pard models and formats." It may sound overly

ambitious, but the Shiny team is confident it can complete MDK - and in time for Christmas, "It's actually easier than it sounds," says Bruty."We've got one guy, Andy Astor, who's doing nething else but working out routines for video cards, Just about everyone here has done

a lot of work with PC assembler before, and, we've got almost a sear... We're not worried."







You may have noticed that Nintendo's Donkey Kong" is one monkey that just keeps getting better looking all the time.

What's his secret? According to his creators at RARE, Ltd., Donkey Kong's beauty

secrets come in a box. It's called Indigo?™ and it's from Silicon Graphics.

The power of the Indigo2 workstation allowed RARE to creare more realistic 3D characters and achieve an unprecedented level of image quality.

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ment process," says Simon Farmer, Production Manager at RARE. "We could never have done it without the Indigo2 workstation-it's the key to our development."

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about the most powerful workstation in the world Indigo? IMPACT. We can help you look good, too.





Famous for its realistic 3D racing titles Rad Mobile and Sega Rally. AM3 has now directed its talents toward motorbike racing. Next Generation caught up with the revolutionary designers in Tokyo

## Manx TT

Format: Arcade Publisher: Janan Developer: Sega/AM3 Release Date: TBA Origin: Japan



arx TT, based around the Title of Man same name is a name with an unpayableled level of realism. The data for the game's central track has been derived from the actual roads of the official TT course - from the start the player rides through the woodlands. acress the countryside and into the seaside town, up to the mountains and

back to the city's main street to finish.

The attention to detail does not stop there, however. The cabinet includes a throatleinduced kick-back system, which and the body to scangerate the sensation of speed, and a

system that vibrates the player with sounds sampled from real TT bikes. including a woofer speaker set in the muffler to recreate the distinctive exhaust note of a TT bike. Innovation Five this can also be found in the experience - when riding, the feet can be lifted off the ground and the blike steered using body weight. Manx TT's basic cabinet comes nouigned with two such fredoulic-

controlled blies, with the possibility of a four-cabinet link-up enabling eight players to compate at once This link-an was first shown at the JAMMA show (NG 12) and received a universal welcome from all who attended.

AM3, the team behind Manx TT. allowed our staff to speak to four of the development - Tetsuya Mizuguchi (Producer), Jun Urlu (Chief Designer), Shinich Fulli (Planner), and Normasa. Yatsuzuka (AM3 Public Relations).

NG: Why did you decide to base a come around the Marx TT race? TM After Sens Rally I wanted to make a game with a big graphic impact that used the player's body. Looking through a magazine. I saw an article about the Isle of Man and I found the island very beautiful - perfect for a nice racing game. Moreover, in Japan there are





NEXT GENERATION April

groups of bilizes who love riding bilizes on the open road. I wanted to make a bile game mixing these two elements. NG: How many courses are being designed for the final game? JU: Two. One is an costing course based on the TT race, and the other still in progress, is an original seaside track. NG: Will there be a selection of bikes? JU: Currently, the player has no choice. The end game will have four different bikes with different specifications. TM: In the game

we've tried to recreate



realistic than Cyber Cycles. We believe we have reproduced the

different styles of riding. We believe there is a German technique, an American technique, etc. The bikes themselves will have different ways of rupting, different levels of aggression. The player can choose a blike from one of these specifications. We received advice from the Castrol Honda team and cooperated with its R&D team. SF: The Castrol Honda team also helped us with the sound effects - we wanted the driver to really feel like they were on a bake. To do this, the sound has to come from a certain part of the bike. We also sampled a real person riding. TM: When making the cabinet, it was Important for us to discover how the sound traveled to the ear of the rides. NG: What do you think Manx 77 has over Namoo's Cyber Cycles? TM: To be bonest. I really like Cyber Cycles, but the courses all look the same and are not very varied. Manx T7 features tracks with characteristics directed toward jumps and the courses

are varied and very beautiful, Also,

real feeling of driving TM: You really drive the bike as if you were driving a real bike. You don't move your hands so much, you drive with your body. The main problem of games like Cyber Cycles was the position of the player's head. When turning into a slope. the head moves from the center of the screen, so the impression is less realistic With Manx TT we tried to compensate for this and succeeded in keeping the head centralized where the visual impact

is the strongest. NG: Will it use the Model 2 board? TM: Yes, we used a CRX-A Model 2. It is the same board used in Sega Rally. JU: It is more or less the same board found in VF2 as well, but the version is different. Virtua Fighter 2 used an A Model we have a R Model

TM: Concerning the sound, to keep the realistic Impression we needed four outputs. The Model 2 has two sound outputs, so we needed to find some more somehow. In the end we used another Model 1 sound board to cross over NG: And closs a bilet game throw up any

TM: Well, to make a bree you need more polygons than are required for a car When we said we wanted to have eight bikes in competition, everybody thought It was impossible because of the high number of polypors needed. So we set a limit on the number of polygons for each bike. Our designers then drew the bikes within the limit They succeeded in making very nice bikes that used relatively few polygons. Eventually we

succeeded in making our eight-playe

version without speed loss.











#### ΔM3 better by

design The team behind A TT is Sega's Amusen achine R&D dept. 3. gh it is AM2 who has the honored e Jaganese game stry's best trammers, AM3 is ened for its wealt ans. The 100ong team last year ont of its e. This year it

# Top Gun: Spectrum HoloByte Jumps into the rapidly growing field of console flight games with this PC port

Fire at Will

Format: PlayStation Publisher: Spectrum Holobyte Developer: Spectrum Holobyte

Release Date: May Origin: U.S.

th Top Gun; Fire at WW. Spectrum HoloByte has adapted its PC flight sim of the same name for PlayStation. The game, using a storyline extended from

the Tom Cruise film, puts the player in the role of Maverick and begins at flight school, the perfect backdrop for the name's initial missions which are devoted to mastering the intricacles of flying an F-14 Tomcat. The player then moves on to patrol various "hot spots" around the globe, from Cuba to Libva.

The PlayStation version differs significantly from the PC game, shifting the emphasis to action, rather than simulation. Flight still takes place in "3-space" (pilots can go anywhere they wish with a full 360° freedom of movement), however, they don't need to

take off and land, or burit enemies. Once the briefing has ended, you begin the mission already in the sky with





op Gun can be played from other o first or third-person perspective, or I makes full use of PlayStation's polygon engine, First person (elevet)

your opponents near, and every mission ends with a "boss" nermy. Also, a distinctly areade-like system of weapon upgrades is in place, and players are awarded more nowerful armament with each mission they finish. Weapons Ilice the MIRV, which solits into three separate, independent homing missiles after launch, are complete fabrications

unavailable in the real world. This is far cry from the realism of Flight Unlimited or Apache. But, with more than 30 missions and an instantaction mode enabling you to jump into combat, the PlayStation version is squarely almed at the actionconscious console audience.

This version differs significantly from the PC game, shifting the emphasis to action. rather than simulation

## **Tenka**

From the company formerly known as Psygnosis comes one of the first true secondgeneration PlayStation titles. Its developers talk exclusively with Next Generation











"Ridge Racer wand to Toshinden Pi

were very nice, but they just used the raw power of PlayStation to throw polygons at the screen" Infe the rest of the software development commanity tries to match the technical innovation of games. Bio. Ridge Racer and \$15'\$ own Wilsonst, \$16' conviders these products.

to be archaic. Its commitment now is to what it calls, "his second generative by what it calls," he second generative by PlayStation games" — games seeking on the train make the best of what It's easily to be the committee of the train make the best of what It's easily to pregnature or the Trevial team, spoke with Next Generation. "We thrist that games like ridge Racer and Tothindon were very ride, but all they did was use the raw power of PlayStation to throw the raw power of PlayStation to throw the property of the pro

alongside years of graphic expertise, we have managed to create a much smoother product, unfiller the breash, hard-edged ones in the first generation. The first site to be developed as part of SIE's second-generation manifecto is Tonkias in first-person perspective action game, which seeks to combine the heavy-duty violence of Doorn. But far from attempting to

create another brain-dead Doom-close though, Poal Hillers, SIE's game designer; is alming to define a new style for the finish-person action general. One of the many goals where hopping to maletab is total termorsion in a walviers, which suggests to the player that events have both occurred and accounting in the ensirpment; as a progresse, "I the hopes to incorporate puzzles and strotters desiration elements usually suggests on the progresses," He hopes to incorporate puzzles and strotters elements usually

found in more intelligent adventures.

One way SIE has achieved this is through the implementation of sophisticated A1 recultions and clever planning of the layout and implementation of bod pays within the levels. These centries will not wander around doing nothing until the player divisions to their water for the sector doing nothing until the player divisors to show up in his no her sector.

— "We have approached the idea with a fresh outlook," inserted Hillen. But Teelar does not just set out to be innovathen in the area of design. Graphic quality is always going to be a crucial factor in any game's success or failure and its importance has not ensure and its importance has not contration has acquired are impressive, but what can't be accreciated in these static shock is the





The team is testing a new to have guns the oppour free the alde

# "YIPPIE-KI-YAY \* %@#?£!"





COMING IN MAY.







## Low level programming

Andy Beverage, designer of the PSY-Q development system for urn, stated, "(Sature is) a real coder's machine. For those who we to get their teeth into assembly and really ack the hardware, Saturn will probably pa a few surprises." This ictice — known as low of programming — is ful for making vast ags in software performance and chiology (see the Merence bet

Dayteen and Sepa Raily.
But do Seny's
likenines handing the use
of this kind of Low level
programming on
PlayStation? Martin
Low level programming
is very important when
you need to squeeze
every ounce of
perferenance from a
machine. In Teola, we

every ounce of perference frem a machine. In Tenha, we machine. In Tenha, we have used 2500 flow level language on PhysSetterol you a few selected routines, but we mensilly find the PhysSetterol you seem to complete ou good with optimized C quite happily, it's very much a case of analyzing what the code is doing, and identifying where exception time in partial, whech turns important, whech turns the bechinque away from

C and toward r3000.

"We've found that the Sony software libraries were ideal for 99% of the game code, but the other 1% is r3000 for fast execution of time oritical code," said Linklater



#### Does the world really used seether Soometyle game? Well, maybe — If it looks no good as this cas does

technical expertise on show in the same's 3D engine. Lee Canus-Viestcott, Tenka's produce; was quick to point out its advantages; "Never before his took this advantages; "Never before his bette bites such a level of realism or complexity in environment and characters prophics. The fire-flowing nature of the sponentry in the revivronment graphics certainly hasn't been additived in the past. This sort of the past of the past

The advanced lighting system employed by SIE enables it to use as many realtim lapidistation lights in a scene as it wents, all with realistic attenuation. In fact, in one of the spane's larger scenes there are 404 realitime lights in operation. Lead programmer Sistom Mocre claimed, "It is very hard to Imagine just how good (the lighting) is from a screen-shot, but when you see a character justice in and out of the

a character lurking in and out of the shadows, the effect is very impressive."

The Tenka team insists that it has had no ordinant exploiting

that it has had no problems exploiting PlayStation's lighting capabilities. SIE's system takes all the information it needs from Sethmany, MicroSoft's 30 graphics design software. Using this pacitage as the editing process appears to have played a premisent part in achieving the ousility and realism of the achieving the ousility and realism of the



Neska's protogonist — that's you, that is — stricts out toward impending doom (sic). Expect more on Yeaks next month environments in Tenka As Sieman Moore explained: "Our conservation process is so comprehensive that nearly all of the tenturing and light ing capabilities of Softlimage have been able to be interpreted by our converter. This ledules things like Alpha blend transparencies, UV mapping of patch models,

repeased textures, spot lights, infinite lights, and so on..." Whatever the quality of the

30 software being used, hardware restrictions will always have the final say in dictating what can really be done on any specific machine. PlaySubston can present specify problems to programmen, specially with the recognition of the polygon crawming the produce of the PlaySubston (CP U) interpolating between coordinates in the property of the prope

and when we identify these problems at they arise, we are able to compensate." Given the problems that STE has overcome in the production of Teolog, coppled with its Immodifier use of the Softmage 3D design package, consumers can expect a graphically sturning title, a uniquely smooth 3D.

stunning title, a uniquely smooth 3D engane, and some breathraking special effects. As Lee Carus-Westcott said: "Unifixe some other games, the complex graphics engine goes hand-in-hand with the gameplay, as opposed to Emiting It. Gamers are tired of the often eversely encoportionate relablioship between

sturning graphics and gameplay."
Maybe SIE's second-generations
titles will re-address the balance once
and for all Mext Generation is keeping
a close eye on Tenka as it develops, and
we kope to bring you more
exclusive coverage next month.



Seake features of Scated light-cour

PlayStation
can present
specific

specific problems to programmer especially with its propensity to warp textures





100,000 polygons used for environment; 32,000 polygons per sector in entite game: 10,000 polygons leaded per disk scenes: 200-260 polygons per charactar. Frame Rates: 25 fps (UK PAL), 30 fise (US RTSG)

# Civilization 2



o compare the

frantically bouncy

The doven of strategy games worldwide. Sid Meier releases a sequel to the seminal Civilization





strange as it first seems. Both games have predecessors ranking among the most flendishly addictive on their respective systems (Super NES's Super Marin World and PC's Crv), both arrived unexpectedly after years of secret development and

each is the work of a top-notch designer Clv 2 is significantly more than an update of the 1991 classic Instantly noticeable are the graphics - every object now appears in isometric detail. The city view is now more akin to the flashy SanCity 2000, but the aim throughout has been to make the game identifiable to fans of the original. Although it would have been easy just to update Chillization's plain

of the original's "weaknesses,"

game now features a changed

"Civilization greatly favored the



graphics, Meier has also tackled some military approach to achieving victory." Meier admits, "We've now adjusted this balance to make trade and diplomacy a more integral part of the game." The



your forces and civilization score. Although programming of Civilization 2 is all but finished, it is not being released until March at the earliest, "Everything must be perfect! fair and balanced before we give the go ahead "said Meier Sounds like



"We've now adjusted the

balance to make trade and diplomacy a more integral part of the game'

\$14 Major, Farre College





re which can be brought to beer when criming the energy











# **Afterlife**

Format: PC Publisher: LucasArts Developer: LucasArts Release Date: April Origin: U.S.





K., there's a lot of game ideas that come out which are just variations on a theme, but a few concepts are truly... well, cool. LucasArts' new resource

management sim is one of those titles In Afterlife, Mile Stemmle, of Sam and Max Hit the Road fame has returned to give players a chance to not only play God, but to also reshape Heaven and Hell into their own image.



In form, Afterlife isn't really all of that different from such resource management games as SimCity 2000 or Transport Tycoon, but the humorous theological aspect of the title gives the strange sim a feel that's uniquely its own. In order to please the nebulously named "Powers that Be," players must bring in souls, Judge them, and then pass them along to the rewards (or punishments) that are

appropriate. Each soul appropriately

In what may be the ultimate God-game, LucasArts give players a chance to shake the foundations of Heaven itself (and Hell, too)









sorted will earn the player some mo divine credit, enabling them to build more of the game's 250 structures including punishments file "The Disco Inferno" and "Taco Hell" and rewards like the "Dream-a-Dice," You'll need to build special stations for processing those souls who believe in reincarnation to send them back to Earth,

Looking at the early shots of this game. It's hard to see how it can fail. If LucasArts manages its usual level of graphics and programming efficency, this new product may be its best PC game of the decade.

#### The humorous

theological aspect of the title gives this strange sim a feel that's uniquely its own











### THE NO-LOOK PASS. THE SKY HOOK TO BEAT THE BUZZER. MORE THAN A SIGNATURE ON A BOX. IT'S A LICENSE TO DOMINATE.

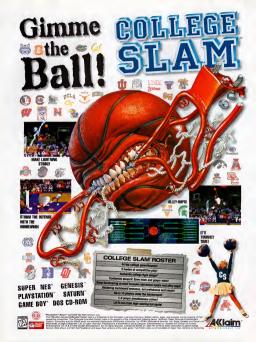


ampionship rings. Set a bruising pick and run Magic and Kareem's patented no-look alley-oop.

You got hops? Clear the lane and challenge Kareem to a high jumping contest. Or call for a double-team,

perspective Crystal Dynamics' Championship Sports brings to the





# Panzer Dragoon 2



Perzer 2 stillizes "on rails" gameping, eithough the freedom within that area sheald provide sufficient caellien for the player to feel in control

As the game progresses the baby dragon grows older enabling

older enabling further gameplay elements to be explored Format: Saturn Publisher: Sega

Publisher: Sega Developer: Sega Japan Release Date: TBA Origin: Japan

anzer Dragoon was one of Saturn's "killer apps" available just a few months after launch. Rumoved to be

the most expensive console project ever undertaken by Sega, the game borrowed from the classic shooter *Space Harrier* and added the depth and graphic characteristics associated with septisticated 3D consolers.

The main attractions of the sequel will be the improved graphics engine and





Fancer Oragona 2 features versatile cases plecing, eaching the pto view the outloo frees differing angles. Here (right), the body drug city mobile to fit, is hader attacked by a securior member Sega's sequel machine cranks into gear with a follow-up to its short-lived but beautifully realized dragon epic







The 3D obstacles to be encountered are huge (top). Meeting an on warship (above left). Watshing the action from below (above right)

the addition of a new playing mode where the action takes place on the ground rather than in the six. The dragon starts the game as a baby, only able to walk and still clumps with its wings. As the game progresses, the dragon grows older and more skilled enabling further gampalay exploration. The flighting mechanism seems to be

identical to the original game — a radar appears in the top right corner of the screen and enomies are targeted through the square on the main playing area. But with the addition of ground attacks, Pencer 2 virtuous should find new difficulties to master.

Panzer Bragoon's limited gameplay will need a substantial overhaul if it's to deter criticism from jaded sequel junkies. Hopefully the company will pay as much attention to how it plays as to how it looks.



I you have you nearest sheet legar to skeep you. He plant weight men the 1 cross on 1, you regard space cannot some even-only symbo with a level which matchs and multi-inel space contact. Much by its head to head folder a led it in the heyly per central with head of the deciding Sharet Agints of all fines. Mine of contact with the space cannot be supported by the space of the spa









the greatest fighting game of all time." - Game Fan, 2/96 "Flawless cantrals... perfect arcade-to-PlayStation translation."

- GamePro, 3/96













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# Return to Krondor



ette for ve

Format: PC. Mac. PlayStation

Publisher 7th Level Dauploner 7th Level Release Date: April

Origin: U.S.

Back in college... creator of the war series, talks here at how Return to ng saga."Midite re's staff in the wa that I never talked about in the books. The whole ce started when I was in college and built this h writing fantasy at other writers are. is based on events in a fictional world. We're not talking about a game then that's based on a set of novels, we're talking about a game based on a

world that a series of books is also based on." oscoming release of Sierra's follow-up to the successful Retroat at Krondor, there's a

do with its officially sanctioned sequel. Return to Krandor, Like the team that is working on Antere the developers of Return to Krondor maker the importance of staying close to the path the original game set down. As Raymond Feist himself notes, "We're taking what we did with Betraval as a foundation, looking over every aspect of the same and deciding what needs to be changed. Where we see the opportunity

to change things - we're improving it." These improvements have come in changes to the combat engine, higher quality graphics (the game will run in full 640x480), and an overall feel better suited for a role-playing environment. Andy Ashpraft, the game's designer explains, "Dynamix was a flight sim company, and their engine was a flight sim engine that had been tweaked into

Will the real Krondor please stand up? 7th Level readies itself to go head-tohead with Sierra in the battle over the ongoing Riftwar saga





an RPG. Our strength is in animation, so we're tweaking an animation engine into an RPG," Using this strength, the team has out together a motion-capturebased character combat system, come up with more than 40 characters, each with its own personality and voice, and created cities that are more than bitmapped screens, but navigable worlds.

While it's still not clear which game will come out on top, it's obvious that the end result of the battle will bring out pamers as the true winners. Both Asters and Return to Kenedor have the opportunity to be classic RPGs, it's just a matter of who has the skill and know-how to produce such a title. 43





# **Paradigm**



"The wind
effects are
very big in
the game,
especially
with the
hang glider
— you have
a lot of local
weather
patterns

patterns to hit" aradigm Simulation is responsible for Pilotwings 64, the sequel to the Super NES classic

year-old US ompany who's prime business has been in the light-end simulation market. Its over function is designing light sample, driving simulators, and marine simulators. Next

Generation spoke to VP Dave Gatchell. NRC: Tell us about your involvement with Nindedo in the Ultra 64 project. DG: Our involvement really came about through SGI, who mentioned us to Nintendo during discussions over the handware. We were contacted by Nintendo in Agril 94 to see if we would be interested and, of course, yes, we wanted to exercise that.

NG: Had you been specifically approached with Pilotwings in mind? DG: No, the Pilotwings project hadn't.

been decided at that point.

Note the analog controller help you with the design of Philosogia of P.

DG: Coming from a simulation beologism of the beologism are try to use physics-based motion models. And the six degrees of recommon freedom offered by flight simulators can be best-controlled with analog juysticks which adapts to pitch, Poll yow, etc...

DG: No, we also after the camera independent of the actual flying experience, using the other buttons. PilotWings 64 is one of Ultra 64's most anticipated titles. Building on the original Super NES classic, this Texasbased company has a lot to live up to

# Simulation

Format: Ultra 64
Publisher: Nintendo
Developer: Paradigm
Release date: TBA
Origin: US

NG: Is that actually an important part

of the gameplay?

DG: You can use a different view to find out where you're supposed to be going, where the pass might lead you; maybe see where borus (evils or bonus objects are — it's like being able to turn your head and say, "Oh, what's that

area down there?"

NG: Did you spend much time looking at the original game?

at the original same?

DG: Definitely. We were instructed to study it very seriously so we spent quite a bit of time with it.

NG: Did you him it?

DG: Although It's a very linear, task-based game, it's really enjoyable, and it was a decent game for when it was published.

NG: So has this linear, task-based approach changed

PictWings 649
DG: Somewhat. There are still many courses and tasks that you have to complete in order to get to the next level, but what's different is that we've developed a very large distabase with three large areas that you.

can go off and explore. NG: Does the weath

affect flight?
DG: Yes, the wind effects are big in the





orgive the peer qualit of the above shot -Slotwings 64 features seastifully crisp 3D game, especially with the hang glider. We have a let of localized weather and air patterns. They're very realistic, with local winds and thermals, and we try to put them where they'd be in real life, so for instance, you get wind coming off the posen, and so on.

NG: What kind of crafts will be featured in the final game? DG: There are three vehicle types, and

DG: There are three vehicle types, and one other type of vehicle/character that we've not disclosing yet. The three types that we've exhibited are the gyrocopter, pocket pack, and hang oliver.

Myemoto's incolvement?

Dis: He's directed the game but we have our direct contact. — a gentleman by the name of Mr. Wada — who we work with directly. We've met Miyamato and har's here necessaries the name int this.

mainly through Wada-san. NG: Does he come over, play it, and "Well, I want such-and-such..."?

DG: Well, he have't come over to Dallas to play it. As far as I understand he's playing it at NCL because we be ried editioned and we're getting constant feedback. NG: How realists will Phiotocopies. NG: How realists will Phiotocopies. NG: How realists will Phiotocopies. On the remost of lynamics and handling?

DG: We're syring to capture the growing failure of the label of the label of the label.

terns of dynamics and handling? DG: We're trying to capture the genuine feeling of flying, like for instance, when you catch a thermal and you get that feeling of lift. We really tried to strike a bolance between using tochnically accurate hang glider flight models and a feet which gameplayers can relate to. NG: What will the

DG: Our target frame rate is 20 fps. It's the same when we're looking at any software, be it games or simulation. NG: Were the game

Nintendo?

edigm is a specialist in military sinus as wn above. There are four vehicle types fibried so far; a recket pask, a gyrossytar, ang glido, and the socret fourth one

turned up one day and we immediately started to implement them in the pare. There's no story built around the characters, but they are very visible in the gener and posses different characteristics. For example, the burly big gay requires a lot more lift, but can also turn the hang glater factor. NG: How did it feel to take what was one of Nisteriotis strenges are not nisteriotis.

and by to white a sequent.

Dist: I can see some advantages to it.

For example, we know our game has a ready-made author.

For example, we know our game has a ready-made author.

But being new to game. But being new to game development call least to consistent, we had fasts of iddas, but Niterando warded us to stick to a fermula that it is recognitable as a sequent we know we're not going to stray two for from the intended rath to far from the intended.

Miyamoto
directed the
game but we
have our
direct
contact — a
gentleman
by the name
of Mr. Wada
— who we
work with
directly"

Dave Substell, Firming

"Shigeru



These shots were grabbed free histonic's press video and, while extremely blarry, give an indication of the quality of the visuosis in Paradigm's first Ultra 64 title. Besides four different crafts, the game will feature action replays and a Game-Save mode that will use the console's saligne memory cards

# **Deadlock**



As is games like Maxin' SkinCity, world building is a major part of Desclinch's chern, itow are you going to feel when your friend destroys H7

More important than any new look is Deadlock's vision of the multiplayer future

hile the space-conquest simulation genre has certainly been done before, it's only been recently that a combination of solid

percently that a combination of solid sampplay, good graphics, and interesting multiplayer options have been fully available. Now, after a day spell of several years, a new generation of games is corring out to offer complex and short-film a partnerships kinn with the

1



MA

ifthough intro entrati e still incomplete, it dready above e look : wil that coe't help by best visuals and sound effects that today's technology offers.

Accolade's Deadlock stands up well against other strategy

stants or well assists, before strategy agenes on the market, both in terms of its look and the consepts of piles. Although it's not a complex as such titles like Past Imperia 2 (No. 13), the titles infinite number of explorable worlds, the busing and selling of our like infinite number of explorable worlds, the busing and selling of its like infinite number of explorable and once approach to city building give it a feel that is deep, while remaining inviting to the new user. All of this is bettered with Accidental's properturary

set of after life graphics.

More important than any new look, however, is Deadlock's vision of the

Accolade makes strides forward as it focus on graphics, gameplay, and more importantly... connectivity

Format: PC
Publisher: Accolade
Developer: Accolade
Release Date: summer







the Windows severes really selfs Deadleck' realliple-screen interf

multiplayer future. Far more impressive in its scope than just another serial finit game, Deadlock will enable players to compete against each other by modern, LAN, over the Internet, or even sension.

moves by e-mail.

The end result is a game that premises not only to look and play well, but also one than'll deliver long-term play in the form of heat-to-head competition.



och race has ite owe rengine sed eskusessen, es well n different attitude meard crosssent

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International

imagine ACTVISION.

Toshinden 2 PlayStation Dark Stalkers PlayStation FIFA 96 Saturn Primal Rage 3D0 Missile Command 3D Jaguar The Hive PC 11th Hour PC Chronomaster PC Strategic Conquest Macintosh Time Crisis Areade



The reviews your mother always warned you about

#### PlayStation .

86 Saturn

88 3DO

91 PC

97 Macintosh

98 Arcade

101 Virtual Boy

101 Neo-Geo

101 Super NES

issiv executed: a new

forward for an existing garre

or a successful attempt at

solid and competitive

imple of an established

in design or

\*\*\*\* Excellent

#### **PlayStation**

#### Cyberia Publisher lete

Developen Xatrix Entertainment One of the first PC ports for PlayStation is Cyberis, and what it closs for the graphic advanture is

codes but my graphic aboverture a reduction own of my continuous, supertu. The sinch rendered graphics of infrar descuremes and out-oneses that once left the player feeling sightford when the game actually sateried is now finally actived in multiple circina angles, contisorodinach, debased light-surpelly, and soundersch, debased light-surpelly, and mixes departs feel is if they're controlling a sounderfollow movemorized properties.

controlling a source-floton mouse. Unfortunately, along with that motion picture sense comes the motion picture sense comes the mealty of heaving to follow a scropt. The linear gampalay doesn't silve for warchings or owiersturing. The orthologome is on a track that constaintly pulls you back to what you're supposed to be during. Even the arraid-subject shooting sequences have the ship on a track. Although they're soll outfar



#### Cyberia is a geod-tooking game, but it lacks a little control

enjoyable. And like any graphic adventure, the basic girmsplay is adventure, the basic girmsplay is doing things over and over until you figure out how to do it properly. Creating your own story as the ideal graphic adventure and Cyberia deceal? come any closer to that, but what's there is still quite enjoyable.

Rating: \*\*\*

Dark Stalkers

Publisher: Geneem

Developer: Copeces
There is nothing about Dark
Stalkers that won't delight the fan
of the 2D fighter in general, and
Street Fighter in perticular. After
the pile of Street Fighters and its



PlayStation's fighter Dark Statkers looks identical to the arcade versice

clones, however, it's time to look for the new and innovative. Which is really too bold as Davi's Statiera could angustly be near the height of development for 2D fighters. Pelished, smooth animation past this game among the better looking 2D fighters, the closses Capcom arismated graphies are consisted and undersaftly full of character, and the sound there are control and undersaftly full of character, and the sound there are

not specialism. In a special s

plerty of personality.

No matter how wall it's being done, Dan's Shalkors is essentially Smoot Fighter and with the new technology showcarring garnes like VP2, Flokkon, and Toutwiden, it just can't compete.

R just can't compete.

Kileak The Blood : Reason in Madner Publisher: Sony Music Entertainment (Japan)

Developer Genki
The first Alleak was one of Sony
Computer Entertainment's first
titles for PlayStation. It was
basically a poorly executed,
genery Doorn-lone with

absolutely more of the personality. With Missia S. Zhesson on Madnass, Sony his connected several of the original's problems, The movement is still stiff the movement is still stiff the biggest linguouement, is the variety in storels — no brogger is it the same halfway over and over again, the same halfway over and over again. The one things the still still

better. Unfertunately, all the greatest, cleanest out-scenes in the world don't add anything to gampslay, but what has helped the gampslay is a new locking, target, a smooth run button, and a larger vanoity in enome. Even after all the inconvenients, beavers. Kilené 2

is still an average Doorr-clone that offers nothing new to the genre. Rating: \*\*



Alleak is yet another Door cir that just decon't play as well

.

PlayStation

# SOPHIA-MORE

#### sher: Tekara (Japan)

One were also when PlayStation texniched in Japan, Toh Shin Denturned the saminal world on its ear with one of the most technologically impressive games ever seen. No one could believe that a same for the home could look so stood and play so smooth And for the first time on a home system, the game enabled each character to move in three dimensions.

Since then, however, games like Virtue Fighter 2 (on Saturn) have come along with even more impressive graphics and better play mechanics. Therefore, the real challenge for Battle Arena Yeshinden 2 is to tweek the say so that it can compete with the likes of VF2. The corrolaints about Tophriden were as follows: it wasn't fast enough; you couldn't attack onemies on the ground: there weren't enough moves; the parring camera made it tough to block and the desperation moves were chesp. Toutington 2 matakes. The game is cliffintely faater, although the have several works to attack enemies on the ground and each character has at least two or three extra moves, plus there are the new overchive moves. Unfortunately, the

roaming camera angles at I can be confusing, and can make your blocking decisions difficult. White not all the complaints were answered. Tostunden 2 will be one of the year's betreet titles There's no densing the title's technical feats, with

the best light-sourcing we've seen, amazing backgrounds, and the super moves Nead-to-head with W72, however, Toshinden 2 just can't compete. The depth of gameplay and complexity of the strategy isn't there, and the speed and smoothness of VF2 for outweighs Toshinden 2's light-sourcing and moving backgrounds. Overset, Toshinden 2 has been much improved and is a great fighting game. The hat "wow" of the first Toshisden, however, is gone and what's left is a lighting name that isn't deep, fast, or belanced enough to compete with the best, Reting: \*\*\*\*



go, where the curtain is down to start (top). New tractors Chaos and Tracy add new life, and even or posse ere present as well (above)

King's Field her: Ascilwa

Developer: From Soft This game is known as Hing's field 2 in Japan, and the edvances it makes from the first Japanese resease are quite amount. At first glance King's Field looks like Doors with a sword, but there are heat encests RPG elements and technological effects to make

The absolute best feature in Ang's Field is the shifty to look up, down, and all around in the richty detailed 3D world. You have to explore the world to find keys. purchase weapons, and find medical crystate, while hottling enemies like fire-breathing dragons, axe-welding guards, and some tough skeleton worriors. As you continue to play you malite that the world is large and there isn't a place you can't explore. if there is one crucial flaw in

this title, it is the lack of

degleation to either RPG or action



#### King's Field's arranging 3D world in complete and worth exploring

genre. The battles are slow and meticulous, and they lack a lot of the strategy involved in most RPG battles, Garring levels, equipment magic, and exploring keep the game fun enough to forgive some of the sluggish battles. Overall, King's Field provides the kind of experience you'd senent from a 32-bit game. Its graphic fiair and CD quality sound joit you into the world of King's Finld And while this isn't the best RPG or action game ever, it's a stame that is thoroughtr enjoyable and taster recommended. We like it Rating \*\*\*\*

Developen Sony hilosoma takes a classic genre every single type of shooter ever made into one game

different styles of shooter as a capsuled salute to grand shooting genre. Fans of but explosions and near impossible levels will find a veritable composite of meyborn put forth in about every imaginable scrolling form of 2D or Inearl 3D. There is nothing revolutionary here, but that won't matter to the shooter about setting for starregley that stopped advancing years 680.

The graphics and sound really

do nothing to take advantage of

the advancing technology if you want the next great experience in Philosoma wouldn't even make a

gitter and special abilities of more powerful machines Still, there's plenty of explosions, balanced gameples. fluid control, timely power-ups and multiple weapon chooses to

lonen any shooter fan happy.

Rolling: \*\* Road Rash leber: Electronic Arts

Developer: Electronic Arts Resh bit, it was the premier sound. The dash of FMV. rock

example of 32-bit graphics and acundrack, and texture-mapped highways had all who witnessed it in give. That was more than two years ago, however, and before the errival of PlayStation and Seturn.

There's no derwing the popularity of EA's classic crashbash senes, and Road Rash for PlayStation is the best-looking impressive 300 version with virtually no draw-in and really fast racing. The returning soundtrack comprised of sones from

atternative rock groups like Soundsarden gives the same the grunge it so desires The real disappointment in Road Rash is that the actual same hasn't changed since the is deep with five tracks, alternate trademark kicking, punching, and cattle prodding. But as fun as Road Rash may remain, you can't

help but feel the game is just using the 32-bit technology as eve candy for a 16-bit same here's certainly plenty to be said for Road Rash as one of the more plevable of PlanStation expenenced Road Rash and you Road Rash should rust be left on

#### Reting \*\*\* Saturn

Developer: Werp First showing up on 300 (NG 12),

D is a totally rendered graphic adventure with a seriously speaky plotline. The obvious upsides to graphes and the engaging story

frighten from time to time. Demonstrating a dedication to game in many ways represents the belance, the problem solve elements of the game are just challenging enough to satisfy and to downsides, unfortunately



are nearly as notable. The most prevalent of all this game's troubles is the fact that the name moves too slowly. Of course, this isn't the type of stamins depend on hightrans feet reflexes.

it becomes frustrating to play in a Another shortcomes is the limited amount of time it's likely to take in agiving this mystery game. From start to finish the experience can be had in a few hours with the right decisions.

Write D deserves a great deal and eneryable same. It's lust

#### Rating: \*\*\* Mortal Kombat II

Publisher: Accisin Developer: Williams There are few examples of

success in the firstory of the videotame industry as remarkable as the Morter Kombet series and who you are), then the Saturn version is everything you can hop for - an arcade-perfect translation - and yet, there is nothing outside of a flashy presentation

thes same over a million others taking pot-shots at MK II, or MK III that matter, but frankly, the game



rust isn't that good. The concept is promise of blood and puts. The play mechanics are solid, but far graphics are predictably chill. While some may argue the

sheer momentum of the ranges is. enough to carry it beyond the ranks of average 20 fighters, the gameplay offers nothing in defense position near the top. Retirat: \* \* \*

#### Saturn

# KICK START

IPA 90 ablisher: Electrosic Art

There has never been much question as to EA's commitment to FIFA for Saturn gamers are once again treated to a new level of accuracy. From the stunning graphics to the accurate commentating, this is sure to impress even the most die hard of soccer fans. While it's true that some tiny details have been left out of this version, such as players' numbers on their uniforms, the game more than makes up for these minor shortcomings with near-periest pameplay

FIFA 96 starts off on the right foot by including and teams. with real players, there isn't a more apparent example than the actual players - you can actually pick out individuals just by looking at them. The realism doesn't stop there, however. The true measure of this game's greatness is in the ability to execute an actual soccer gamepian with accurate results. And though it's easy to customize your team's play, with all the

finesse of true world-class teams built-in to the game, it's almost The final reason to love FIFA is that arredst all the realism of this accurate soccer simulation, the game still manages to be a great deal of fun. The action is fast and



name and restors, FIFA 56 is an close as it gets to being is the game. The "Virtual Stadum" is truly immersive

#### Skeleton Warriors Publisher: Playmates Developer: Nevernett

It could be argued that Skeleton Warners is the most 3D 2D game over. The overall concept is being tired and yet the fancy new packaging of this side-scrolling action game is almost enough to count it as more. Technically speaking, outside

Skeleton Warriors is no more 3D

scrollers (Sono Mano Ger, etc.) hut there are just enough 3D effects and graphics to make you Employing techniques such as shifting the field of play in and out of the acreen to save the Busion of

depth and scaling enemies from foreground, this game teeters on the edge of innovation but never gute makes at to the other side. From its stunningly beautiful riversive character designs

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#### rating 3DO jaguar

product on just about every level. Stril, it's difficult to take this game seriously as a 32 bit. contender with all of the true 3D In the end, if you simply can't get enough of side-scrolling action smes, then you can count on this



#### 3D0 BC R

gemes that are showing up on PlayStation and Saturn, what could 300 do to compete? Hopefully, BC Racers wasn't its terrot because it's possibly one of the worst racing games we've soon in a long while,

You choose from say different partoony "bike in' inders" and race them through eight heets of competition. You race at might through deserts, jungles, swamps, biggards, caves, and volcances a bad one, it's in the execution Recing the bikes is just mindless. all you do is press the gas and power slides and real slopey

control. Perhaps the variety of courses could make the dame. interesting? Not so. The courses weden't created with much care and are mally ugly. The best stemple of a dreadful course is



#### tell the difference between the

road, the edge, or the bikes. Three years ago on a 16-bit machine RC Rooms worldfive been a fine game, but if 300 wants to be considered a pect-depend on ncer. The Need For Soned Road Rush in fact, any other game

#### Reting: #

Primai Rago

More than a year ago Primal Race was a massive arcade Nt; it was blood, and sharp graphics that made it so popular. Since then, Game Gear, and now a 300 version. One thing that has been ade very clear about Prima Rage is that the lighting just isn't very doop; plus, the graphics



store generally, fighting depth, and strategy is required for home gamers

300's version does feature graphics on par with the arcade version and has kept the title's when it comes to the fighting, the don'th and strategy just isn't up to exciting idea of fighting dinosaurs has worn off, Comparing Primal Rade to the latest batch of 32-bit Tothloden 2) really shows how dated the once graphically

impressive game has become Still, because of 3DO's lack of good fulbland stames. Pomel Rade is the second best fighting game on the system - behind Super And just like the dipossure it's obvious that Primal Rage's time has come and zone.

Detter ++

the way poppers the action a little, but once you've some a few left to surprise. Each track is visually different, but most handle and feel the same and the competition against the computer never really changes.



ck-off of Super Mario Karts

#### Jaguar

#### Atari Karts

Karts is a shameless knock-off of Nintendo's Super Mano Kert, It's one of the better games in the Jacuar Mosary. While the dame is not likely to appeal to everyone. especially more meture garners. If does have a certain charm that

makes it bard to avred. Reging a go-kart around a signath of simple little tracks with six other racers hot on your trail your life (and in all fairness it probably won't be), but it is strangely addictive. Lacking the sophistication of today's realistic recing games, Atan Karts is not

meant to impress, but rather to entertain. This it does well The down side to Aten Karts is that there isn't more to it. Sure racing around the different tracks

Still of wooden backung for a quick recing fix without too much by way of realism, Atan Karts just might be the way to go Ratine: +++

#### Fever Pitch Soccer Publisher: Atari

eveloper: US Gold While it would be impossible to bonestly say that Fever Pitch game on any one level, it is more then safe to say that the game does most thing's well. What that means is that while the ticle's

enough, the field is the right color reasonably convincing. It also means the gamepley in Fever Pitch Soccer is fast responsive, and, for the most There are shortcomings when it comes to fouls and defensive strategies, but in general, things

What's missing from Feve Pitch Socoer is that extra feeling. of realism you'll find in a game like FIFA. We're not meent to find realism in the special "fartasy" plays of the "ster" players, like beyond these culricy additions to the mor, this game has a definite lightweight feel in its speed and

ere as they should be.

the size of the playing field Not exactly the game for soocer idealists, Fever Pitch Sopper is fun, but it's a little on the fryclous side.



offer a resilutio soccer feet

#### upercross 3D see: Atari

ser: Tiertex Limit While the idea seems likely erough to be extertaining. — and. In what is an impressive feet in and of itself - Supergross 3D manages to eliminate most of the raw potential of this fabulous sport. From the very opening the first thing you will notice is an extremely chappy delivery and a thoroughly mediacre look. While these are probably forelyable, the

insiane choppiness is not. The



- US News and World Report
- "THE GRAPHICS RAE RIVIAZING, FRNS WILLBE IN JOY STICK HERUEN."

- Computer Gaming World

"THE HIUE IS WHAT REBEL RSSRULT SHOULD HRUE BEEN... RGGRESSILELY ORIGINAL.... GROUND BREAKING.."





TITLE THE MINDWARP WILL SUCK THE MINDWARD SOLL SUCK TO THE SUCK TO THE TON THE WINDS WHE WINDWARD T SUCK THE TOP TIEN NOY F NON XON 77IM THEM SUCK YOU ANAWGNIM 3HP With A JUZ JUZ A A JUZ A 7,77 YOUS N

rre's Police Quest: SWA ne you the enique opport

Angeles Special Weapons And

Tectics team. As you train and

require special attention — such

runs into trouble in the actual Most of your job is to follow the

Leaster That should be sample

commends are ambelious at best.

in some situations, you'll find that even though you thought you did

what was right, you'll atil receive

with absolutely no explanation of

to 60 a lot of information into one

a lot about police procedure and the inner workings of the SWAT team. The distized video

succeeds in bringing the

best, in several places

Reting \*\*

situations you doal with to 15 although the acting to week, at

All in all, this is a decent

what you did wrone

learn, you'll go on call-ups -

those civil disturbances that

es a hostage situation White it sounds fun, SWA7

Jaguar

# DESCENDING

Missile Command 3D

Developer: Ateri Them is no doubt that Missile Command deserves to be mentioned gamers will remember fordly that great track-ball control. Sometimes things are bost left to in the past, however, and Missie Command may well have been one

Onemally planned for use with Atam's recently canceled HMD penpheral, Missile Command 30 comes

up a little short in its expansion of design. This time, just as in the original, your mission is to protect a small pocket set in a 3D playing field. The only problem is that once you get beyond the nove by exact same as the original. And after a

few rounds, it grows thesome Offering the original Missile Command and a second 3D version called Writisal best of the three, the game tree to cover

all the bases, but remains lacking in its addictive quality. Perhans if the garneniay had been built upon to an even further extent, the

Rating: ++ introduction of other racers makes matters worse, and confusing





of (top). The newer version hee a convincing 30 feel, but it's just not enough to take the game to a new love

ublisher: Reality Syles, Inc. Developer: Reality Bytes, Inc. be nothing more than a

combination of Yermanai Valority start playing you'll realize there's gute a difference. are split up into various fections:

with their ultimate goal to overthrow the Tyrakian Overlord. There's not much of a plot, to be place on the ground, and geographical location plays a emportant role in establishing a

The true shiners point of Havoc, however, is in its multiplayer features. Butht from the box, the game comes with least one other person. Not only that, but if your friend has a Mac, it's a cinch to play a notworked

game between the two rightness With room for up to 16 players using either Macintosh Havor could be one of the best titles available for pure multiplayer action.

#### Police Quest: SWAT Publisher: Sierra On-Line Developer: Sierre On-Line In Philos Guest, SWIT, you play the newest member of the Los

Reting \*\*\*\*

attempt at a police simulation, but your lack of control leaves much SkyBorg: Into the Vortex Developer: Friede Multimodia Publisher, Skybox International thing that can go wrong when a



For this ship to fly in Skydlerg, you'll replace several best

#### perspectives and severe size down problems seel the 1d on the coffin. In what is supposed to be a very fluid and strangely graceful sport, they title does very little to

capture the true essence of dirtbeen record. Not everything about Superproper 30 to treate. The customization is receiv presented to make up for its gamepley. The game could be greatly improved with smoother animation, to say the least. But for now, it's

difficult to find a star small brough to rate this game. Retisc \*



experience it was mosel to be

#### **HOUR FAVORITE**

uhlisher Censtone doper: DreamForge Intertaismen

Chronomoster is a game about immortality, and the course of having a rather deep premise, the game goes a long way in showing what a good graphic adventure should be.

The story was cowritten by Rozer Zelazny, an award-winning science firture author. The nint is not the typical adventure fare. instead it revolves around the concepts of immortality, universe construction, and the nature of time itself. Graphics are also superb — the 3D renderings are remarkably detailed while still nuncing well on slower systems.

ting wall on slower systems. Even with all of this going for it. Olygnomaster's interface is what toolly shares. Changes to nerform an artise is as simple as hitting the right mouse button a few times, and if you guill down a quick and easy manu bar, you instantly have access to your special utilities and inventory. After a while, you begin to realize you're not thinking about how you're playing, you're just playing. The voice acting is much better than usual, starned Ron

Perkera (from the "Beauty and the Beast" television senes) as the main character, and "Star Trek: The Next Generation" star Brent Somer. Along with Lotte Davidovich as a rether uppity computer AL there's some resilv entertaining dialogue Unfortunately, the entire game sen't cast with actors of this caliber, and there's custs a few people moments as well. All in all. Chronomaster is a fine arieting to the graphic

ativesture secre. There's a street storyline to keep players overview tend to stay



difficulty range, and there's plenty to see and do. Oversill, it's apatore leting: \*\*\*\*



Rene Kerde rurs into interesting felt, as he travels around say worlds. These Jiss will need their banger satisfied before getti out of Kerde's heir (leset), Welch year step with the Council of lan, they're an stupid so they are ugly, and quite lethel

### **ABOUT TIME**



face will pit you nasing Steed hireaalf, such as the race to control a



ero ore many details in The 11th Near, as this speeky lab shaws, repists with bleedy operating table Don't ask what the stimups are for,

The 11th Hour

Publisher, Virgin Interactive Entertainment Developer: Trilobyte, Icc.

The 7th Guest was a strangely successful steem that was little more than puzzle solving and movie watching. Now the longavailed securi. The 11th Hour, portirues the story of Stauf and his apocky manison. Unfortunately, the game is shif little more than solving lottic guzzles and watching video clies.

If you're into that kind of thing, that's line. You'll probably get a kick out of the endless puzzles and cryptic clues, the only curoose of which is to lead you further into the story. Careful though, if you have anything less than a Pentium, you can expect to do a lot of sitting and waiting. Even if you have a powerful machine, don't even expect things to flow as smoothly as 7he 7th Guest did on a 486/33, because it won't. Although Triotyte has added some useful conventions, such as not scots that will flip you 180° in the virtual reality mansion, you should still expect to do a bit of wading through endless passageways and rooms to find the next puzzle or clus

If you loved The 7th Guest, then you'll love The 11th Hour because they're basically the same game. Don't expect much difference in pameulay, or even plottine. Stauf still mocks you reneatedly as you wanter around the endoarments, and even the music is the same theme, played over and over. Of course, if you were bored by the first installment of the Stauf sage, you should simply avoid The 11th Hour altogether.







You may be able to handle these guys, but...



- · Spectacular, full-screen 3-D rendered, ray-traced animation
- · 2 full CDs crammed with mutant creatures and cyberspace action adventure!
- · Rocket through the new and unique labyrinth of flying levels!



















DC

### BUZZ OFF

#### Developer: Reinbow America

Publisher: Trimerk Interactive

No one could say that The Hive isn't a nice looking dame — the drambins are sturning and the detail is superb. Visuals gade, however, the same is about as

If you try playing this one, set used to seeing the same thing own and over again because the game's all the same from start to fissal. The terrupus plot - a trigger pulling - sounds like something taken from a second-rate and moved. You have to profest the deliver from the Mot, which is treme to use arcent sentlically

engineered creatures to create an incredibly fatal toxin to use selected mankered. Oddly enough, if spents the only way to do this is to blow up arathing and everything in eight. At its heart, the stame is a pail shooter - one of the most

noninteractive action genree around. True, this one has things that Windlands and Rebal Assault 2 don't, like the pencerus 200' field of year. but in the end, the only time the game feels interactive at all is in missions in which you hit the second soustick button to perform a secondary task, like hitting your thrusters to glide over mountaintog This may be one of the first games to use the full power of Win 95 as a game platform, but let's hope it's not indicative of the platform's future.

reelly good in The lifes, a united reasy of the





Ration \*\* computer same is based on a than a solid same concept.

The basic storyline is that a prevent the overpopulation of the Earth - send people into the Torus, is starting to act up. Now he's been kidnapped, and it's up

him and the invention. around finding things and using then somewhere else. The worlds of the microcosm are frozen in stass, so all of the inhabitants of the universes you explore are frozen in 2D form (honce the use of the trading cards in the game) Windows, but it's not optimized

for Windows 95. Even on a 486/66, it curs sion. You have to do a lot of clicking to travel from place to place, which grows old fast. Even though the game looks great, it moves about a quick as a program whole and after a few fours storal around in circles, it's not going to hold much interest.

Future Shock Developer Betheade Softworks

Publisher: Bethesde Softworks Terminator Future Shock is moressive in its about to immense the player into the post apocalyose world of "Terminator." You have 350' of movement around you, including straight up

and down. You can about and destroy anything you see, and the levels are often wide open landscapes you can explore, rather

though, makes the garre difficult to play. It takes a while to get the bang of the interface - you control forward and back movement with one hand and you orientation with the mouse or

keys that perform important functions, like opening doors, that are not easily accessible without palette is so dark that it is hard until they're right on top of you Terminator: Future Shock is

pleasantly different from its Doom-ish counterparts. When it comes down to pure playing astisfection, however, the difficult make at more frustrating than fun Retiret: \*\*

#### Thexder Publisher: Sierre Developer: Sterra

Those of you who were fans of the original Theoder will want to check out Serva's sil-new remake of the original shooter. Theader for Wendows 95 does an admirable tob of using the multitasking environment, with several resizable



is atil just a platform shoets

windows for all of the game's equipment, and, with DirectPlay hooking up with friend is a circh Of course, the same is still an when you start using some of Thexder's more advanced feetures, like the ability to

transfered with a set-fighter, there are puzzles that can be fasty entertaining and challenging leave you stumped for long The graphics look great for

Windows 96, If you run it on the minimum system requirement (a however, Thronier looks lifer he's running with magnetic boots or and the enemies come at you so slowly it's hartly a challenge to sick them off before they get too near, That's OK # you're not good at platform shooters, but you replay value is practically rill. Rating: \*\*



ermission: Fature Shock is packed with interesting end world details

Buried within these three rooms are secrets to unravel the mystery of D.

# **SWEEPSTAKES**

Find the clues and fill in the entry
form for a chance to
win a voyage to







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A 7 Day/ 6 Night Trip For Two To A Gothic Castle In Ireland

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A Limited Edition

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#### Virtual Karts Publisher MicroProse Developer: MPS Labs

Virtual Favts markets have if as a good at distribution. It exemities the cartonnish Super NeS: Super Mako War far more than a sensus seen the MSCAR Raining, however, White there are a good amount of adjustable variables for you to pay with, most of them under the most of the closes on your favir. The order of your cartiful and the shape of the closes on your favir. The order of your cartiful and the shape of the closes on your favir. The order you can go of the closes of your favir. The order is not the hardness of the tree from whom you choose, a favir favir.

trace's dry trisse choices in either category. 
On a positive side, there's a few race tracks from which to choose. Sadly though, while each one has its own style, after going around for a few laps, the newalty quickly wears off. The end affect is create a racer with a fair more arcade-like feet, rather than a true.

sim of a high-speed go-hart race. This half and full approach to the go-hart sim was a matche, it would have been a much better geme if MPS Lobs would have committed to the arcade quality and thrown in a few power ups to supercharge your kart along the way. At the very loast, it would way, at the very loast, it would

have made things interesting. Reting: \*\*\*



The high resolution graphics in Virtual Kerts try to make up for

#### Warhammar: Shade of the Horned Rat

Publisher Mindscape, Inc.
Devaloper Mindscape, Inc.
By portraying the life of a mercenary captain in a magical stantasy setting, Wadermer delivers a unique strategic challenge. But with the game's wade interface and drab

graphics, you may find that you have to work at orloying it. The majority of the game centers around garines troops add to your army, and cerning morens so you can gain more troops. You take on a series of jobs, and, depending on how well you do, earn experience and gaid Batthis take place in realitime through in of itoes. There's a through a series of jobs, and of the place in realitime through a set of itoes.

not a lot of precision control of your units, but the 3D battlefields make for some thoughtful planning of startegy. Those's plenty of magical items to find that'll boost your army's strengths, as well as cause

damage to your enemies.
Withformer certainly soft the
prettost gains around, and, even
norming under Windows 35, N's
octianly not speedly—expect to
be passed with leading times.
There's plenty of strategy for
those willing to look for it, but
ultimately, if you want to see
something with more action, you'll
need to look somewhere else.



Much of Hurtamaser is played with this interface, using button

#### Williams' Arcade Classi Publisher: 61 Interactive Developer: Willams'

If you really thriv about it, the age of Joset and Defender wasn't all that long ago in the solterns of word instory. Yet playing old thorse really shows you have far garring has come. From one-dimensional shooters like Defender to the FMV bravedo of Wing Commander IV, things sure have channels.

things sure heaver, you like the way things were way back in the early 190e, Writamar' Emperturement has a must for you. So of the greatest areast obsesses are now all population of the production of CD-ROM. Definition I, Definition I, Josef, Bubbles, Robotrom, and

OD-ROW. Defender I, Defender I, Defender I, Defender I, Despublies, Rebotrow, and Sinststrate at all here, and they pige exactly like the ong nels. The sounds, the graphics — even the arrimation the arrade versions showed when no one was showed when no one was pumping them full of quarters — are the same.

Be warned, though, Sinstar is

Be warned, thought, swister is no Maccilharmor 2, and Succless grows old quackly. These games are firm to play, but only for about a half frour. After thist, the urge for Warnowst 2 will most certainly win out over Robotron. Ruting: \*\*\*

#### one Raiders ablisher: Virgin Interective Startalanent sveloper: Imaga Space, Inc.

Zone Rarders delivers high-spend faturistic repring as it should be — fest and flamous with a lot of power-ups and plenty of variety. After a nuclear holocaust, there are two types of people; the poor and the rich, As a Zone Badder, one of the poverty.

poor and the toth, As 2 one Radice, one of the poverty stricken, you'll radio a wanety thoreteas though a multitude of arenas, from decimated city streets to guarded power station in upset to retinive vanious objects. The ultimate goal is the liberation of the oppressed by finding transportation to the



Action comes fast and furious you gether itsess in Zooo Raic

#### Macinto

Reting +++

# **KILLER!**

#### SFPD Homicida Publisher: 3 Prong Plo Developer: InterWorks Typically, the problem with FMV mystery gam

Developer intervents: Typically, the problem with FMV mystery games is the restrictive nester of the format and interface. Inevitably, you'll have a question you'd like to eak someone about someone also — and something

they were likely to have been doing at some specific time—but you simply den't have the option to do so. SPPD Manicolo, on the other hand, is not only exployed with a user-femoly interface which enables you conserved colors, stationard, and test meants, but the grant two discs are commodition, one of the conserved colors and the colors of the colors and the other and the colors and the colors

Supprinciply enough, another expect of the filth is chain is the clad is fact of a since highwoodeling broadchine. Mentaning a sample and professorial pushful the game's dry presentation of the chain of the relies of resides. A feet of push that the range gibt work is the chain of the chain



By accessing the map of Sen

nancison you can traval quickly in any appropriate location in the ity. As the game wears on, more mel more locations will be smallating (top lott). Who said cotag a detective was all fun and juman, huh? Well, at least you gat to look at one! people with trungs saiting habits and a hed

mythical FreeZone, a land free of Emergency Containment Organization (ECO)

The riet fortunately is condary to the action. Zone Backers is that report of spirous loads of different weapons to drah as well as some took tropyative powerups. We the let pack and laser amplifier. Best of eil, there's even secret passageways on some levels All network play makes Zone Raiders on action came of choice

#### Rating \*\*\*\* Macintosh

#### trategic Conquest sher: Delta Tao releger: Delta Teo

Lord before Internity Incomicts and other traffety successful PC Mac had a dedicated cade of Mac-only game developers Although most of those developers are gone, a few stalwarts remain, making dedicated Mac games that have a Savor treatly their own. Promier arronz these are Casady &

Greene and Delta Tan Strategie Conquest, features several updates, including fractalgenerated worlds, beefed up rufeial intelligence, and undered graphics. Basically the point of the game is simple — conquer C. Greek, build arress, explore the world, destroy your enemies, and RESON YOM REPORTS

Lich of Delta Tun anthunes of of these features are executed impeccably - by gamers, for garners. So, if you want a strategy game with a low learning curve and plenty of replay value, get this one; we enoyed it. Rating: \*\*\*\*

#### Arcade

#### Bust A Move Again Publisher: Telto of America Doveloper: Talto Japan

One of the most addictive puzzle games in the arcades right now is Bust A Move Asset. If you saw the first one, the sequel is just as good (or if you have a 300, you But your skills must include not just speed but pool-style aim and ightening quick reactions to get

anywhere near the highest levels. The object is to connect there like bubbles together to eliminate the threewests, and countriely to manner. Along the way your connect (adher the econster or one other player) collects points by connecting threesomes, and in turn sends bubbles over to your rarin. crowding your state and boning to end your dame. You, of

course, are able to do the same. and the loser is the first ore to pile up enough bubbles to reach below the baseline. One of the more foscinating bouncing year hubbles off the make no had antia can and your game yeary abruptly, it's fast, fun. and because of the title's bright, innocent looks and unpretentious simplicity, it's almost untain Oneworks storted Rust & Move



#### Bast A Move Again in simple and fun, and boy, there's Sub and Rai

#### **Dirt Dash**

Developer Names

expense of Sega's fantastic line of driving games comes the inevitable response from Namoo Durt Dash, an off-road recipe dame with a similar look and feel to Sega Rolly is that response It employs feedback steering exaggerated powershiles, sect passages, and a variety of national terrain that challenges the

If it weren't for Nameo's uncarry ability to create excellent games, its annoying copycat strategy would really be a negative quality. But it's difficult to see where Dirt Dash didn't Importung to a solde record of arrest over its prigipator. Where there were three terrains in Rally, Dash adda dense jungle territory or icy mountain slopes (in which you're forced to steer out of an out-of control slide): where Rally featured two shahtly different cars, Dash uses three very different vehicles - an off-road

det budgy, a respectua sports car. and a 4Y4 trans- and white Pally uses an interesting may of road novement). Doob embrone the use of obstactes and damageable core contitor evolution in Patro

Essentially, Dirt Dash is to Soga Ratly what Takken is to Write Fighter, and with its attractive use of the Surer System 22 board, latte-spurcing excellent feel of the cars.

themselves. Namoo has another

#### Ingeons and Dragons

eloper: Capcor lungeons and Dragons 2: Shado style side-erroller and security the early '90s one all is full of the shuff that made the first so far. Using the identical engine as

#### Arcade

# STEP ON IT

#### Publisher Name

aust like an obsessed A-type engineer, Namco has followed the course of its competitor, copying the "model," improving on it, and adding new qualities along the way, in the case of Time Crisis, however, Namon's Inchnical precodicusores has brought the game to a new technical and gameplaying level above any of

its current commetitors, namely Sector's Virtue Cop 2 Time Crisis employs a unique foot pedal to move you through the game and to secuttaneously reload, in the game, if you run into a same of assessins, sust press the foot pedal down and you'll retned and clark habited crates, or if you're near a bond in a hellway, you'll quickly back up behind the wall. When the

wave of bullets halt, lift up the pedal and you'll move into firing range. One bullet will kell you, so the challenge of ducking and ng increases the title's overall strategy By creating this impositive maneuvering technique, in



precistermined path runnang, providing Story or Attack mode and challenging end-level bosses. Time Crows thousts the light gun genre into a brand new territory — and develops a whole new way of looking at, and playing. the classic light-gun game Retion + + + + +



p on the puddle and avoid these o up to shoot (teg). You can use either Story or Attack medes

It's that moment just after you rip it off, when the circuits are still pumping cause they don't know what hit 'em, and they've got that expression on their face like "Hey that's my arm!"...the first gush of oil from the open socket...the lights in their eyes going dim...yeah, that's when I know...I'm alive.



### \*COULD ZILLIONS OF DROOLING PYTHON ZEALOTS BE WRONG? ABSOLUTELY.

## So, LISTEN TO THE EXPERTS INSTEAD. Best CD-ROM

Best Product

Best Strategy Program

Best Game Special Award

Best Top Ten Multimedia Products

Best Of Everything





With the success of Segs Relly comes Namco's response, the

DAD 1, the same Capcom team has seammed the CPS2 (Laccom Systems 2, resching (Laccom) systems 2, resching (Laccom) systems 2, resching (Laccom) systems 2, resching (Laccom) size of the sevent of store Fighter Algora, X Ment: Children of the Account and their laccomed aim smooth, limpcoving characters for a local of eight (Dought there are but of sach

class, totaling 12); each of the 18

stages includes at least four politic per straja, speading the atory path much father to add more opens; there are at least six offerent endings; there's a surplus of major items (protective rings, major ings), boots of speed; and extra character sixtificas, like approximations are also as a surplus second and fight two-handed.

mage, rings, boots of apeau), and extra character skinflins, like fighters being able to find another sword and fight two-handed. The game is still your basic side-to-side scrolling which enemes and self-later action deal, but its appeal has been improved and its potential furified. Degree D&D tros will eat it up.

#### Konami's Open Golf Championship

Developer Known
Developer The Both
Devel

Technology's Peter Jacobson's dealors Tee 30 Set' (effectively using a trackfoll) when feasible when sever securate and direct ways of translating the human procision model to simulate gotting mechanics, Konam's joystok presents serious contral problems it's not that you can't play the aime, or that it sen't the it for the translating that the serious contral problems.

mechanics. Kenam's joystok, presents senious control problems, it's not that you can't play the game, or that it sen't fun, it's just that the centrol doesn't respend consistently. Close up justs are difficult to gauge met only because the power gauge — vetry necessary and useful in longer shots — doesn't use a mere effective were of converting the

shots — doesn't use a more effective way of conveying the amount of power needed, but because the level of frustration overcomes the yay of playing. Aside from these serious anares, the title has a cool Advi-

Asset north base sanous aniares, the title has a cool Advise feature (Nee a personal golf consultant), four courses (Nei Nei Lake Island's short cuts), and the Long Drive Contest, and Chissett the Birry Contest, which bears up the manctory perfectly. This could have been a good

the monotony perfectly.

This could have been a good game if its control were better, rather than the decent game it is.

Ratins: \*\*

#### **SORRY!**

No new games were made available for review this month on the following systems

#### Virtual Boy

Neo-Geo

Genesis Super NES

# Thisis the game...

... for which you have been waiting!

Announcing The Elder Scrolls: Daggerfall,
Bethesda's latest installment in the Elder Scrolls
Series and the sequel to the award-winning Arona.

The Daggetfull is the most ambitious computer game ever device. This is no dungeon lack, no bit of fluff with medieval trappings. Daggetfull's world is twice the size of fortal fletian, filled with people adventures, and secretary as real as reality. This is a world designed to allow you to play the game any way you want. Be the Hero or the Villain... or anything in between.

TES: Daggerfall is all your favorite movies and hooks wrapped up in one package. You will enjoy hundreds and hundreds of hours of playtime in, your new obsession.



This is the game that hardcore FRFQ is have been writing for since the beginning Deggerful will introduce players to a reland levide their computer that looks an land the control of



Energetal \*\* The Febr Scotts \*\* X\*Cons\*\* sail Fed Day\*\* are halfwards of Medic Technologic

All The Brutality, Carnage And Senseless Violence Of Darkstalkers.

#### Only Darker.

hat when you fought the Desirations had model their whence will, they're book with a chilling best. Hight Verices "Evature new soore move, make'nt combon, durating common and come about it observation in the yout it coupley heritigated whom. New, you'll have a triffing accounter with 100 yet or bushooms before this betting for you'll be the mer a principal yet physiolist democrats. Sign princips a desting you for a develop of your form the real principal yet physiolist democrats. Sign princips a desting you for you for your form to write the sign of your form to make a principal yet and you for the your form of your form to be for light and you for the your form of your form to be for light and you for the your form of your











# 32-bit gamer's guide

Your guide to every 32-bit game released so far

inals roundup is the section of Next Generation in which we provide a comprehensive list of all the specificant next-generation games released so far (only the "best" 32X games are included due to space constraints. Please note that some of the games reviewed here have been superceded by sequels. In this case, the review

scare of the original version should be Also, a rating out of five stars does not give enough information on which to judge a same. If you recure further information, back issues of Next Generation can be ordered on page 32, or you can consult NG Online at http://www.next-reneration.com/ne/ where full

the suffix (lapan), it means the name (at oress time) is only available as an import from Japan, and will not work on standard US machines.

reviews are available. Where a game name is accompanied by

Time PLEUSIER NG RATHO PlayStation Virgin \*\* SCE \*\*\*

Aele Worter ArtDrik Aquanout's Holiday ((spen)) \*\*\*\* Arc The Lod Gapeni Acres Arres Technolos SCE .... Amer's Rood (Japan) New Corp Course Ages (Inpur) Necres Coine Centiers (Bosse) Sony Foreststame ++ Vic Tekas Cyberg Incerplay Cybenpeed Mindscape Cider Wor (base) \*\* Deform 5 Dwar Exat .... DorkStokers Captom Destruction Derty Pormosis Witana Orașen Bell Z (Ispani) Crystal Dynamor \*\*\* Good Scarce \*\*\*\*

Korami Garcer's Hoesen (bean) Media Vision \*\*\*\* in the Hant Xine In the Zone Konem Parabler Flock jupter Sorke Accising Kleck The DNA Ingentive SME Kileok The Blood 2 Kneh Rele Anthors .... Looded Interplay \*\*\*\* Metal Jacket (Japan) Solan

Mable Sut Gundon ((spin)) Banda Tms Puntage . NG flyres Mortel Kembet 3 Publisher \*\*\* Motor Tees GF (Japan) SCI \*\* NEA Jun Tournament Editor NR Gemeday Sony Interactive \*\*\*\* NH. See OF Sany Intercerive \*\*\*\*\* AGA Tear Evenetional '94 Anne Serve S.D.Sovie Occun ... Power Besetoli (Sepan) Konami

Ander Sebu \*\* UbSoft \*\*\*\* Aiden Racer Adge Racer Aeralation (Japan) Names Electronic Arts Stationer Assess Electronic Arts \*\* Store Griffin Attus \*\*\*\* Total Ecines Turbs Crystal Dynamics Witsel Holleybell (Sapora)

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(I'm not kidden about the B.O.)



Mail bonding

hen issue number #I of NG came to the newstand, it was frash and so impressive that I felt compelled to write a letter compelled to write a letter congratitating the editors on the conston that was no desperately needed to the mature videograme playor. This fector is on retract anything positive I said to you in

Recently, I got issue 13 of NG. I ask if this magazine is unbased I) Where did the stunid question of basing Torre Kalinske "admit" that the Super NES is superior to Genesis come from n NG 13's interview! 2) Where did having Tom Kalinske's admission that Sera could make more money as a software third-party group give NG the conclusion that Seza will probably abandon the Saturn in 1996 to be such? Did Tom Kalinske suddenly become from president of an American extension of a Japanese videogame company to CEO of the same company! 3) How is Atan's possible switch from hardware to third-party software company lead NG to believe that this has become innerral to Sera's future plans? 4) How did NG surmise that Sony and Nintendo (or Matsushita only) have become the next superpowers in the videogame Industry in 1996/ S) If Seea is on the second generation of Saturn software and Some is still at its first generation of its software, then

what is taking Sony so long to bring out its second generation? And why is NG quick to point this face out but only using it to defend the Sony PlayStation? Thanks for nothing. Ned, St. Peter's College Don't let your own prejudices cloud your analyses. Here are the answers to your questions in the order they were asked: I) in was a complement showing how Sega has triumphed in the past with inferior hardware. 2) Wake up and smell the coffee Business is all about making money. And if Segs thinks it can make more money as a thirdparty developer, it may jettison ers bordware business. 3) Because Atan's actions are a model for a correspy whose hardware is not selling well. And 4) First, we have not said that definitively, we've theorized than this naradiem could begoen (and there's a difference). 5) Because Sony's first-generation software is selling, so it has no

recently went into a store and saw a massive library of Saturn tides on sale, including Virtues Righter 2 and Sege Rally, yet when I received NG 12 you said both gromes were still in development. This is one of the few mistakes I have found in NG. I want to believe this was an accodest, but I can't stoo thrives that you are in

reason to reveal its second-

generation software yet.



100% finished games, unless it

## Sony's back pocket. What's the deal? Jason Dickinson Plattsburg, MO

Typically, we write each issue two months before it hits the streets. We attempt to anticipate whether the software we are worms short will be out when sometimes we are wrong. In this case we weren't as you can read on page 48 of the Hardware War feature " and Virtue Fighter only 70% complete (at the time of going to press) is already the best looking Saturn game to date" But sometimes (for space reasons) we don't. It certainly wasn't an attempt to sabotage Saturn, aithough your letter does show how people use anything to confirm their suspicions when looking to prove a bus.

#### y letter is about false advertising. In one of the recent ads for W2

the recent ads for VF2 for Saturn, they have been showing pictures of the arcide game, not the Saturn game. I recently bought VF2 and to my surprise, the backgrounds are 2D not 3D. In the Saturn ad with the rapper, Ice Cube, It shows the huge stone bridge in the background of Shun's stage. In the Saturn version, the ring does not even move down the river! On the back of the box it shows pictures of the arcade, too. I don't believe I got my money's worth for this game.

Eric Seat Leesburg, VA

According to Sega, the reason the background graphes aren't up to arcade snuff is because they ran out of time before the product was released. As for the ads, typically, the ads need to be done for before the game is ready, which is probably why Segu used arreads shoes. Dishonest? Maybe, As for nor gating your money's worth, come on, how much do the backgrounds have to do with the game? The gamephy in Virtua Finter 2 is dead on, and the

characters look great.

ere's a new one for you (topefully). Are there any plans for a 32-bit syball videogame? Kevin Kassel

Lehl Utah

To the best of our knowledge, there are no volleyfull games in development for US release. There was a Japanese volleyfull game released for Saturn (Virtual Volleyfull), with national seams, but it was extremely lame, and chances are it won't come out here. Sorny.

Il Namco's [Super]
System 22 board
enable easy translation
to Sony's PlayStation as as
PlayStation-based System 11
does, or is System 22 too
advanced for PlayStation's
Anthony Savare

Woodstock, GA

If AM2 can convert Virtus Fighter
2 from the Model 2 board to the

Z from the Model 2 board to the Satum, Namoo can convert games from the Super System 22 to PlayStation, but conversions certainly well be more difficult than from the System 11 board.

hank you so much for running such extensive coverage of the Ultra 64

in the Feb. '96 issue! Observant readers will wioness the famous "Necession B.S. Freing" at full throttle. Remember the Super NES-CD? How about Keler instruct as a release total for the Hira 64' Well, heececcere's Ultral The article with George Zachary (I know he's with SGI) is especially enlighteening. It's fascinating to see a marketing puppet performed with such

charm by Nintendo and SGI This man actually said "I've seen people draw trees that look resiliatic with a total of four notenest" I les I know the roses hely rafferer about. They are in the standard SGI-small town demo and they look like well. really beth-quality paper cutout trees. This posing of to your own words,"Less is sometimes more!," is guite ludicrous when you are trying to create "virtual worlds" Someone in the virtual reality field once said "reality is 5,000,000 polygons." The true. "Reality Engine" is that Nintendo is cutting corners left and right

drives the point further home The entire world has embraced CD-ROM as the medium of choice for entertainment delivery. Nintendo's argument about CD-ROM being unsuitable for earnes is ridirulous as you noted. They've been working on this thing for 2.5 years now and this is the best they can do? One and a half sames to show! If this is considered "ultra." someone please call Webster's

to yet that system in under \$250.

No CD-ROM drive only

and change the definition. Macmidi441@aol.com Interesting observations, but

you're in the minority. Most of the letters we've received about Ultra 64 are very enthuspatic about its chances. was wondering why PC

game makers never make an "epic" same - one that ust roes on and on and takes forever to beat? I know that there are some tty long games out there, but all of the games that I have only take me from a couple of days to a week to beat.

Mark Melovk Baltimore You raise a very good point, and there's probably several reasons for why this is a current trend. First, not everyone lusts

after long-term earnesisy instead one or for tyles that ever them the thrill of victory after only a minimum of effort

Second, an epic rame takes much longer to depen increasing amount of man-hours that so

Finally, if you have a game that you really like a lot and play all of the time you're probably not out buying more software, and that doesn't make anyone who's selling games all that happy, The best place to look for

loor-term eameolar has always been in role-playing rames and multiplayer strategy games. The best RPGs out there right now for long-term play are all pretty old, but here roes: We recommend Librar St. IV. and V for a start, the World of Xeen installment from New World Computing, and both Areno and Dozzerfall from Bethesda as some excellent lone-term play choices. Strategy games that give great

few friend willing to play with you are Pax Impens II, Command A final tie: Don't cheat! If you so online and erab a handy character editor or wolkstrough it may end up running your gameplay experience by enabling you to finsh the game too soon, without exploring all the oppons.

hat happened to the Pippin by Apple? Is it realy a game machine and if not, what the heck is it? Eric Houghland iev@pacificrim.net

later in 1996 in Japan, and Bandar is allegedly releasing it in the US later this year as well. It isn't going to be a game machine any more a than Mac is - the Popin is basically a Mac that uses a TV as a monitor and has the QS on the CD software rather than on a hard drive.

The market for the Popm is less than apparent, but a preproduction unit was on deplay at January's Macworld

Expo in San Francisco. As for a guide to gamery terms, check out our extensive Next Generation Lessoon article in our March usue (NG 15).

isst read through issue 13. and I couldn't be more disappointed. It seems obvious to me that you guys are PlayStation biased. The first ships was see on the court is Ridge Rocer Revolution. This might be a great game, but no rading rame other than Sero Rally should have been on the cover of any magazine. It is by far the hest home racing same KingCee@aol.com

hat is this with the Serg Rolly review? Are you giving into the pressure from the Saturn owners? You've been tossing around your fivestar rating a little too easily lately. But hopefully you'll come back on the rating of Sean Bally

sabotage@THEDEN.COM KingCee, meet Sabotage Sabotare, meet King Cee. We invite you two to fight it out deciding whether we're based toward or against either unit. categorically, 100% certainly the last letter about being based that

we will over pent. Probably, asten your seat belts. We are expenences surbulence. I purchased Stodeforce for my 3DO and 20 minutes into the rame I eot motion sickness. Reine a glutton for punishment. I was playing the next day. Ten minutes

into it and I was sick again. Here is what I've learned about videoramine motion sickness, I'm not alone. The claim made by 3DO's about losing Bladeforce bets testers due to motion sidoness is true. A bigscreen TV makes it worse because more of your vision is consumed by whirling and flying polyroos and pixels.

Games that twist and twirl the horizon in an effort to simulate right or left motion tend to cause motion sickness. This is why Blodeforce, Twisted Metal, and driving in the Bowl in Destruction Derby make me ill. Frame-rate

and graphic resolution make a ber difference. Blodeforce is heav. Sented Metal uses musty gravy eraphics and Affine Time has a choney frame rate. All of these are investment for motion



of 3DO's game testors (end a

sickness. Even in reality, we tend so blink when we serk our heads so the right or left. I'm not sure if simulated blinking is the answer, but it's something to shink about

Alan D Changy BVRM1 | Afflorediev.com

You bring up a good point. If planne certain types of 3D rames makes you sick fas is the rase with one editor at Next Generation) stay away from them. It can be a crap shoot, though Doom may make you hurl, while Destruction Derby is fine. We surrest adjusting the view to allow maximum display avoid problems. For more on videogames and health concerns, check out NG 10's feature Do Videosames ScrewYou Lle? But rt must be noted the occasional bout of motion sickness is usually testament to the realism of a game

orry to be a super-geek. but in February's Arcadia. Marous Webb was talking shout Taito's landmark arrade hit in the early 1980s, and he said the game was Asteroids Asteroids was from Atari, Space Invaders was from Tarto Jessica Byrnes

Allston, MA

You know you're right, and Marcus was wrong. The correction has been noted, and Marcus has been shot, Actually, that's a lie. But we shouted at him for a bit.



#### ....

A game is judged on how well a player gets to interact with the software. It's judged on the strength of the communication between human being and computer. And the medium for this communication?

The humble iowaed or iovstick.

A revolution in game control is coming. Next month, a Next Generation report.

Next Generation #17

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# The way games ought to be ...

Hi-octane game theory by Chris Crawford

Interaction is a process involving listening, thinking, and speaking. Videogames are good at speaking, but how come they're such lousy listeners?

ne of the more vestor problems in interactive design arises from the fundamentally asymmetric nature of the relationship between human and computer. All of our existing models of interaction presume interaction between humans, who are fundamentally symmetric. For example, my standard interactive model is the conversation between two people. Note, balanced relationship between both parties, I speak in the same language that you use: I listen with the same ears and in much the same fashion. A conversation is a symmetric process involving two equal partners. If we remove the symmetry by giving all or most of the speaking to one person, then the event is no longer termed a conversation; it is a fecture. And we all know that lecturing somebody during a conversation is rude. because it denies the equality of the listeners

and computer that we establish when we design interactive entertainment is fundamentally againsterier. It is not equivalent to a conversation between two human beliefs at all. The computer is not the same thing as a human belief, this asymmetry constitutes one of the major elements that impacts the daily of garners.

agrimment at work. My standard definition of interactivity is asseptived in once of interactivity is asseptived in once in district of interactivity is asseptived in once in the interactivity interest, thrinks, and speaksi, Whith are the asymmetric libitation; the human laters through its mage and lasplacant. The hartist has a high capacity for information shorption, both the op and the ear have a great deal of perprocessing portioner makes possible inhabitation of the open and the earliest and interactivity in the control of the open and the earliest and the open and the open and the open and the earliest and the open an

First, let's recite some of the

reception. We're talking the megatyries-persecond of-information reception capability in your average human being. The computer, by contrast, has lower listening capabilities. The average person can, with mouse and leryboard, enter only a few bytes of

Thinking: Here's another area where the human outstrips the compute, but not so flagrantly as with listening. The computer can indeed think, and in some dimensions of thinking — such as arithmetic computation.

Computers have lousy listening capabilities. The average person with mouse and keyboard can enter only a few bytes of

information per second

greatly outstrips the himan. But in a
great many other areas, such as pottern
recognition, the himan has a huge advantage
over the computer.
Seakkins: Here is the one area where the

Speaking: Here is the one area where the computer approaches the capabilities of a human. At my best, talking and gestioulating, I'm able to generate AIBs of information per second. A computer carrir reach that output rate yet, but it's getting close. A fully an instead display with second or music gets us up note the Misylegorid range.

Considering these three together, it should be obvious that the greatest source of asymmetry les in the area of listening, and the least lies in speaking. This explains, to some extent, the design style of so many agrees currently on the market.

Most listen poorly and speak well. The typical product gives the user very little to sky or do, and then hose irm down with MBs of audiovisual extrawagence. Thus, despite my incessant carping about coxestive speaking and insufficient listering, the current level of interactive design reflects the asymmetric strengths of the computer.

But we must remember that there are two ways of looking at the problem of asymmetry: the ideal and the "orain of the medium." The ideal properties what we really qualit to do: the grain regresents the natural strengths and wealcresses of the medium. Good design pursues the ideal while acknowledging the grain. The ideal of good interactivity is equal emphasis on listening. thinking, and speaking. After all, the quality of a conversation is based on the extent to which each of the conversationalists listens, thinks, and speaks. If either person puts more emphasis on any one these areas, then the conversation as a whole suffers. In the same way, participants in any interaction must focus equal energy on all three areas to do

But we must also acknowledge the pragmatic issues here: the computer is a loosy listener and a flascinathing tasker. It is computer to speak well and very difficult to great well. Therefore, we must expend more effort on the precitions of designing open a flascing than on designing good speaking. This is the only way to achieve an effective compromise between the pragmatic considerations and the design ideals.

the best possible job

How well are we doing? Let's examine the success the industry has had in designing good listering. I have to asy, we're doing a terrible job! A good way to assess the quality of the fistering experience is to translate the commands of the game into werbs. Fee

sample, Doom offers just is five below two but the but the fitter and his potential, go belowing side sideways, five, change weapons. That's the entirety of the listening basis Doom can handle. Not very impressed in known of quantity of listening, is It' for consister another high that of the last year, dispit. This game offers an even more thrist dat of rests "ow when I clicked," and "operate widesters" of listening and proposals widesters I clicked upon." Box, It's the that these works can mean a variety of things

whatever I citized upon." Move, it's true that these verbs can mean a variety of things given the visual centest. Thus, "operate whatever I citized upon" can mean "opes the door" or "throw the switch" or a variety of other things. So it's not quite fair to say that Mysh has only two verbs. But it containly doesn't have very many. What's particularly soal about this is

What's particularly sad about this is that the situation has gotten weres, not better. In the last year or two we're seen an explosion of multimedia products whose listening powers are even worse than those of most sparres. Many of these games have little more than 'go to the next image?' and 'go back to the previous image," plus a few more libelingers.

What do we need? Obviously, we need to improve the listering skills of our designs. What, precisely, does this entail? The brainless answer is that we need richer languages of expression for the user. We've got to give him better things to sax, and above all, more verbs! But this raises a nasty problem: How do we increase the number of verbs without losing the audience in a maze of restrictions? I am remoded of CAVIlization, a game with a fairly rich set of verbs that also sported a 200-page manual It would seem that we have a difemma here: either we give the user a paltry verb set or we bury him or her under a hupe manual There are three ways out of this clienters, and we'll end up using some

consistation of all them. The first is to study as wathers expectation of our introface. This is committed to the all the state of our introface. This is committed to the state of the sta

our own responsibilities here. Whenever somebody designs a game that has its own custom version of scroll bars, or close toxes, or whatever, that dim nafes the standard. So it's important that we all have together on user interface issues. If there's a standard way to approach a problem, use the standard way. Ret you pour own custom design only if you can prove to a siterplical observer that it's superior to the standard method.

The second method is to rely on the natural linguistic skills that all people have. Use linguistic structures where possible. Think in linguistic terms. What's the subject, the verb, and the direct object of this

the verb, and the direct object of this command? Present your interface in linguistic terms.

The third method is to throw some computer resource at the problem. Jeez, we have no problem throwing computer resource.

The typical game gives the user very little to say or do, and then hoses him down with megabytes of audiovisual extravagance

at graphic problems. We use MBs of CD uses speak, and measures of CPU life to come up with the reducts graphics. Why not throw up with the reducts graphics. Why not throw its common speak of the reducts graphics with the reducts graphic speak or the reducts graphic speak or the reducts graphic speak or the reducts graphic partners download in the reducts graphic speak or the reducts graphic speak graphic speak or the reducts graphic speak graphic speak or the reducts graphic

opens up doors - remains walld.

Finally, a thought on the copy that you find written on game boxes.

Jason Kargill set allow at a table to the durkest corner of the little candina. His fingers nervously caressed the handle of the laser blaster stapped to his hig. Through type narrowed to sitis he watched the steady steam of extendence coming and polar. They widened slightly when the Zlarkr walked in. So this was the one he'd been walking to see all this time. This was the partner who would coach him to be a... Starkner Radder!!!

## The way game

How many times have we all seen opening lines like these on our garnes? Dripping with purple prose, the text shouts remano, excitament, and adventure. It makes you want to buy that garne, rush horn, and enter the coffest lives offer the works.

of course, is the whole purpose of the press.
There's a profesim with this, though:
Have you even noticed that the game you light
read by an ording whatever to do with the
read's has noting whatever to do with the
handle of your lesses blaster; Instead, you jerk
your cruser all over the screen and Marti
handleds of falls over monotiens over and
over and over. You Ger's more your eyes the
handleds of which your properties
will be through the door; include, you wanter
walls through the door; include, you wanter
walls through they containly makes in search of

obscure puzzle parks.

Do you see the difference between the purple proce and the game? The purple procedings with overdone emotion, but the game doesn't have any emotion, just a lot of looks and action. Isn't that odd? If our opening text were more honest about gameplay, it would read like this:

Jason Kargill looked in front of him. Scheams of and-shaped this things with big teeth appeared. He pointed his laser binster frantically around the roun, blasting them. They sept commy, bigger and faster, and, he says blasting. Then there were green things with bloodshot eyes, and he biasted them, too. After a white, they stopped coming, so he walked into another room where he saw a bounch of pranger things with Classin, he blasted July or so, then walked into another room. Now this would be a lot more bosest,

wouldn't RT This would really commentate what the pame is about. So why do we need that other kind of introduction? What deficiency in our games does the original text make up for? We are really life a little kid on a tricycie. We peed our tricycle introduct, shouting "Virocent" at the top of our lange, shouting "Virocent" at the top of our lange, and "Neer comest the first budset" it's all great good fun. But what's really odd is that, as we continue to grow older, instand of actually building fire funcies, we just keep building bigger tricycles.

The way games ought to be...
This article was first published in Interactive
Entertainment Design, critical by Chris Grandord
For more information context ChrisGrifixeLoam



grounds to ripple, rubberize and react like nothing you've ever seen ('cept maybe that nasty gelatin salad your mom puts out for company).

But there's more than eye-popping



Egg fights, screaming babies, victous attacks—it's like day care from hell.



Do not adjust your television. These graphics are supposed to be wavy.



60 levels packed with all-new surprises. Huge expanding bosses. And Yoshi—a cold-blooded baby sitter who spits fire and launches, eggs out his butt. He even morehs into a helicopter.



This little sucker doesn't just scroll left to right. He goes all over the place



Kicking, shricking, crying, tantrums...and that's just the guys who bought new systems.

try that with your average lizard. And if that doesn't pacify you,



there are over 130 different types of enemies. So, you may wanna put on a fresh diaper.





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